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Graduate Courses

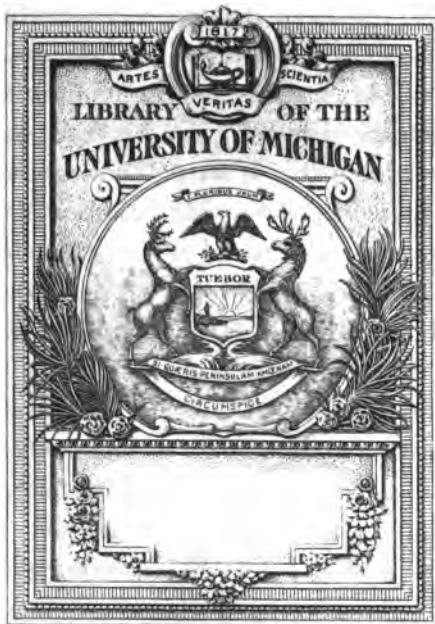
1895-6

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GRADUATE COURSES.

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A Handbook for Graduate Students.

Lists of Advanced Courses Announced by Twenty-One Colleges
or Universities of the United States for the Year

1895-6.

COMPILED BY AN EDITORIAL BOARD OF GRADUATE STUDENTS.

C. A. DUNIWAY, Harvard, *Editor-in-Chief.*

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EDITOR'S PREFACE.

THE primary purpose of this Handbook of Graduate Courses is to furnish in compact form accurate information that will be sought for by advanced students. If that result is attained, the Handbook justifies its existence. Such students will consult it to learn what institutions and what professors offer courses in the subjects they wish to pursue; what has been the academic career of those professors; what amount of time is asked for each course; what numbers of Graduate Students have been registered in the specified departments; what fees are required of Graduate Students; what Fellowships, Scholarships, and other pecuniary aids are open to them; what requirements for admission to advanced courses and for advanced degrees are imposed, etc., etc.

It is hoped that officers of administration and instruction,—in fact, all persons interested in the development of graduate study in America—will also find its pages interesting and valuable.

The reader is asked to bear in mind that the editors have not sought to include all Graduate Courses offered in America, nor attempted to give details as to the courses herein presented. In the first place, the intention has been to omit all purely professional work. In the next place, the Handbook has been and is a growth. The edition of 1893 included eleven institutions, while this includes twenty-one, and future issues may be gradually enlarged in scope. For all details the reader is referred to the full announcements published by the several colleges and universities and freely sent to all applicants.¹

¹The introductory sketches in the following pages give the names and addresses of the officers to be addressed for further information.

The sketch of the proceedings of the "Convention of Graduate Students" on a subsequent page sufficiently explains the present status of the Handbook.

Dealing with so many technical and complicated matters, and prepared in very great haste in order that it might appear in time to be useful to intending students, such a compilation cannot be expected to be free from errors. As to many points, repeated inquiries have failed to elicit desired information. The Editor regrets that the tardiness of four or five universities in furnishing copy has delayed the publication of the Handbook beyond the announced date, and has also made it impossible to secure the desired degree of careful revision by Assistant Editors.

Criticisms and suggestions looking to the future improvement of the Handbook are invited, and may be addressed to C. A. Duniway, Editor-in-Chief, Cambridge, Mass.

THE GRADUATE CLUBS.

Several Graduate Clubs have been organized during 1894-5. It has come to be generally recognized that a Graduate Club is of very great value in any university doing graduate work, giving, as it does, a common social center for the advanced students in all lines of work, and affording a pleasant means of personal contact between students and professors. The Convention held in New York City last April was an evidence of the active spirit of co-operation subsisting between the several Clubs. The length of the list of officers here presented shows the great growth of Graduate Clubs since the organization of the first one (at Harvard) in 1889.

Association of Graduate Students of Brown University.

Organized in 1890.

Pres., W. H. EDDY, Brown.

Treas., A. T. SWIFT, Brown.

Sec., MARY E. WOOLEY, Brown.

Cor. Sec., A. C. ELY, Brown.

Bryn Mawr Graduate Club.

Organized in 1893-4.

Pres., FRANCES HARDCASTLE, Girton.

Sec., BESSIE BAKER, Purdue.

V. Pres., ESTHER BYRNES, Bryn Mawr.

Treas., VIRGINIA RAGSDALE, Guilford.

Executive Committee.

ESTHER BYRNES, *Chairman.*

FRANCES HARDCASTLE.

WINFRED WARREN, Boston Univ.

FRANCES LOWATER, Newnham.

LAURA JONES, Toronto Univ.

The Graduate Club of the University of Chicago.

Organized March 11, 1895.

Pres., C. H. GORDON, Albion.

Sec., JANE K. WEATHERLOW, Wellesley.

V. Pres., I. W. HOWERTH, Harvard.

Treas., C. K. CHASE, Oberlin.

Executive Committee.

I. W. HOWERTH, *Chairman*; C. H. GORDON, JANE K. WEATHERLOW, C. K. CHASE, A. W. MOORE, SARAH M. HARDY, H. K. WHITAKER, JESSIE JONES, E. C. PERISHO, ISABELLA STONE, O. K. FOLIN, T. L. NEFF, EMELINE B. BARTLETT, W. P. BEHAN.

The Graduate Club of Columbia College.

Organized in November, 1893.

Pres., HARRY A. CUSHING, Amherst.
V. Pres., FRANCIS B. BRANDT, Harvard.
Sec., WILLIAM R. SHEPHERD, Columbia.
Treas., CHAS. T. RITTENHOUSE, Stevens.

Executive Committee.

F. B. BRANDT, *Chairman*; W. R. SHEPHERD, C. T. RITTENHOUSE, J. F. CROWELL, R. A. MILLIKAN, F. B. HAKTRANFT, F. R. CROSWELL, C. C. ROSEWATER.

Graduate Students' Club of Cornell University.

Reorganized in 1895.

Executive Committee.

Pres., JAMES F. BROWN, Earlham. *Sec.*, ALICE J. HAMLIN, Wellesley.
1st V. Pres., BERTHA STONEMAN, Cornell. *Treas.*, C. F. LAVELL, Queens Univ.
2d V. Pres., L. R. HIGGINS, Brown. HORACE G. HOADLEY, Yale.
ANNA M. BOWEN, Northwestern.

The Graduate Club of Harvard University.

Organized in February, 1889.

Pres., C. A. DUNIWAY, Cornell.
V. Pres., J. H. BOYNTON, Harvard.
Sec., F. P. GULLIVER, Harvard.
Treas., J. B. BROWDER, Vanderbilt.

Executive Committee.

J. H. BOYNTON, *Chairman*; J. B. BROWDER, H. H. BROWN, C. A. DUNIWAY, F. P. GULLIVER, J. E. LOUGH, H. R. MEYER, F. H. SAFFORD, E. A. SINGER, E. A. THURBER.

The Graduate Students' Association of Johns Hopkins University.

Hon. Pres., PROF. MAURICE BLOOMFIELD. *V. Pres., W. E. HENDERSON, Wooster.*
Pres., F. S. CONANT, Williams. *Sec., C. C. SCHENCK, Johns Hopkins.*

Treas., J. A. C. CHANDLER, William and Mary.

The Graduate Club of Leland Stanford, Jr., University.

Organized in 1895.

Executive Committee,

Pres., J. C. KIRTLAND, Jr., Hobart. *G. A. CLARK*, Minnesota.
V. Pres., M. ADAMS, Leland Stanford, Jr. *W. B. CLARK*, Leland Stanford, Jr.
Sec.-Treas., ORPHA E. LEAVITT, Doane. *C. W. GREENE*, Leland Stanford, Jr.
JESSICA S. VANCE, Univ. of Pacific.

The Graduate Club of the University of Michigan.

Organized Jan. 20, 1894.

Executive Committee.

Pres., CHAS. F. EMERICK, Wittenberg. *Sec.-Treas.*, DANIEL B. LUTEN, Michigan.
V. Pres., MARY G. WILLIAMS, Michigan. ANNIE S. THOMPSON, Michigan.
IRA D. TRAVIS, Albion.

The Graduate Club of The University of Pennsylvania.

Organized in October, 1893.

Pres. ex-officio, ACTING PROVOST *1st V. Pres.*, J. H. PENNIMAN, Univ. of Pa.
C. C. HARRISON. *2d. V. Pres.*, LEO S. ROWE, Univ. of Pa.
Sec., OSCAR GERSON, Cent. High School, Phila.

The Graduate Club of Radcliffe College.

Pres., MARY COES, Harvard Annex. *Sec.*, MRS. F. W. PATTERSON, Wesleyan.
Treas., FRANCES C. GOODWIN, Smith.

The Graduate Club of Vanderbilt University.

Organized in 1894-5.

Pres., W. C. BRANHAM, Vanderbilt. *Sec.*, A. D. KELLAR, Heidelberg.
V. Pres., J. REECE LIN, Emory. *Treas.*, T. D. MCINTYRE, Ky. Wesleyan.
Executive Committee.
D. T. WILSON, Univ. of N. C., C. T. KIRKPATRICK, Vanderbilt, EDWIN L. JOHNSON,
Univ. of Miss.

The Graduate Club of Western Reserve University.

Organized March 14, 1895.

Hon. Pres., DEAN R. W. DEERING. *V. Pres.*, MARY C. NOYES, Iowa State Univ.
Pres., W. J. JACOBS, Adelbert. *Sec. Treas.*, A. H. MABLEY, Adelbert.
Executive Committee.
W. J. JACOBS, MARY C. NOYES, A. H. MABLEY, C. W. STAGE, C. T. HICKOK.

The Graduate Club of the University of Wisconsin.

Organized May 22, 1895.

Pres., O. G. LIBBY. *Sec.*, MYRON E. BAKER.
V. Pres., FLORENCE P. ROBINSON. *Treas.*, JESSIE GRIFFITH.
Executive Committee.

EDWARD P. CARLETON, JOSEPH F. MORSE, KATHERINE ALLEN, G. ADOLPH
GERDTZEN.

Convention of Graduate Students.

ADDRESS TO GOVERNING BOARDS OF AMERICAN UNIVERSITIES.

ON the initiative of the Harvard Graduate Club, graduate students, representatives from the nineteen colleges and universities whose courses appeared in the Handbook of Graduate Courses for 1894-5, were invited to come together in New York City on April 16th last. The Convention which met on that date was composed of twenty-two delegates representing sixteen colleges and universities.

The general purposes of the Convention were these: (1) To establish the Handbook of Graduate Courses upon a more satisfactory basis and to obtain a more general coöperation in its editorial management. (2) To consider conditions of graduate study in America, particularly the subjects of intermigration and maintenance of standards for degrees. (3) In general, to advance the interests of higher education by bringing together graduate students from all parts of the country for discussion of topics of common interest.

The first work of the Convention was to recommend the continued issue of the Handbook of Graduate Courses and to formulate a plan for its publication. In accordance with that plan an Editor-in-Chief was immediately elected. Each contributing college and university was asked to designate a resident graduate student to prepare its matter for the Handbook and to be the representative of the institution on the Board of Assistant Editors. Control

of the Handbook was vested in the Editor-in-Chief and this Editorial Board.

The second session of the Convention was occupied by discussions upon (1) intermigration of graduate students; (2) maintenance of standards for advanced degrees. A striking unanimity of opinion upon both these matters was developed during the proceedings. In the belief that well-considered expressions of opinion from a representative gathering of graduate students would prove useful in advancing the interests of graduate study in America, the Convention adopted a series of resolutions and embodied them in the following:

ADDRESS TO GOVERNING BOARDS OF AMERICAN UNIVERSITIES.

A Convention of Graduate Students,¹ representatives of Barnard, Brown, Bryn Mawr, Chicago, Columbia, Cornell, Harvard, Johns Hopkins, Michigan, Pennsylvania, Radcliffe, Vanderbilt, Western Reserve, and Yale, held at New York City on April 16th, 1895, adopted the following series of resolutions, which they wish to submit to Boards of Trustees, to Faculties, and to the University public:

1. That only those who have obtained a bachelor's degree from some reputable college, or who furnish proofs of fully equivalent attainments, should be eligible as candidates for the degree of Doctor of Philosophy.
2. That the degree of Doctor of Philosophy should be granted only after the completion and publication of a thesis embodying results of original investigation.
3. That regulations should be modified to facilitate the intermigration of Graduate Students, and that accordingly not more than one year of residence should be required in the university where the degree of Doctor of Philosophy is conferred.
4. That the giving of the degrees of Master of Arts, Doctor of Philosophy, Doctor of Science, Doctor of Letters, *honoris causa*, is to be condemned, and that the granting of these degrees *in absentia* is very much to be deprecated.

¹ California, Minnesota, Stanford, and Wisconsin, although sympathizing with the purposes for which the Convention was called, did not send delegates. Clark and Princeton, being represented only by members of their Faculties, did not join in the adoption of these resolutions.

INTRODUCTION.

BARNARD COLLEGE.

Barnard College duplicates for women the undergraduate course of Columbia and registers graduate students for work under the University Faculties. All degrees are conferred by Columbia. Students have full privileges in the University Library. Seniors and graduate students attend lectures at Columbia under the Faculty of Philosophy. Graduate instruction under the Faculties of Political Science and Pure Science is given at Barnard. All general academic statements made by Columbia apply equally to Barnard. EMILY JAMES SMITH, Dean. Address MRS. N. W. LIGGETT, Registrar, New York City.

BROWN UNIVERSITY.

The University was founded by the Philadelphia Baptist Association in 1764, the first Commencement being held in September, 1769. For the year ending April 15th, 1894, the endowment yielding interest was \$1,089, 118.66. The income for current expenses, exclusive of special funds, etc., was \$115,957.72. Degrees were first granted to graduates from the Graduate Department in 1889. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. By a graduate course is meant one primarily intended for those who have already attained one of the academic degrees. Women are admitted on the same terms with men; but undergraduates are instructed in separate classes.

The year begins on the third Wednesday in September, is divided into three terms, and ends the third Wednesday in June. E. BENJAMIN ANDREWS, President. Address FREDERICK T. GUILD, Registrar and Secretary of the Faculty, Providence, R. I.

BRYN MAWR COLLEGE.

Founded in 1880 with the endowment of Dr. Joseph W. Taylor, the College opened in the fall of 1885. The realized endowment, outside of buildings and grounds, is about \$1,000,000. The College is an "institution for the advanced education of women." It admits these classes of students: graduates, undergraduates, specials, and hearers. Special students must have passed the examination for matriculation. Hearers attend courses on the consent of the several instructors and receive certificates from them only. The Graduate Department was organized in 1885. Degrees of Master of Arts and Doctor of Philosophy are granted. A graduate course is one which presupposes a minor, major and post major undergraduate course (*i. e.*, three years of undergraduate instruction), and to which only students that have the A. B. degree, or its full equivalent, are admitted.

The year is divided into semesters. For 1895-6 the first begins on October 1st, and the second on February 10th. M. CAREY THOMAS, President. Address MADELINE VAUGHAN ABBOTT, Secretary, Bryn Mawr, Pa.

UNIVERSITY OF CALIFORNIA.

Founded by an Act of the Legislature in 1868. The University is a State institution, having an income of about \$300,000. Graduate instruction has been carried on since

1874. The following advanced degrees are granted: Master of Arts, Master of Letters, Master of Science, Doctor of Philosophy. Graduate courses are devoted entirely to advanced work. They presuppose a full undergraduate training, and are chiefly intended to develop professional scholars and specialists who shall be able to carry on original research. Women are admitted on equal terms with men.

The year is divided into two terms. For 1895-6 the terms extend from August 12th to December 21st, and from January 11th to May 16th. MARTIN KELLOGG, President. Address JAMES SUTTON, Recorder of the Faculties, Berkeley, Cal.

UNIVERSITY OF CHICAGO.

Founded by John D. Rockefeller in 1890, the University was opened October 1st, 1892. The realized endowment at the end of the last fiscal year was \$2,900,000. The income was \$370,000. Assets of the University, including funds subscribed and those now in hand, exceed \$7,000,000. The Graduate School was organized in 1892. The degrees of Master of Arts, Master of Science, Doctor of Philosophy, and Doctor of Science, are granted, and may be conferred at the end of any quarter. No definition of a graduate course is given. Most advanced courses are open to suitably prepared juniors and seniors, as well as to graduates. Women are admitted on the same terms with men.

The year is divided into quarters beginning on the 1st of July, October, January, and April. WILLIAM R. HARPER, President. Address THE UNIVERSITY EXAMINER, Chicago, Illinois.

CLARK UNIVERSITY.

Founded in 1887 by Jonas G. Clark, the University was opened in October of 1889. It admits only graduate students, and confers only one degree, that of Doctor of Philosophy. Its courses presuppose a knowledge of what is usually required by the best colleges in each department as a condition of the degree of A.B. Women are not admitted.

The year begins October 1st. G. STANLEY HALL, President. Address LOUIS N. WILSON, Clerk, Worcester, Mass.

COLUMBIA COLLEGE.

Founded in 1754 by a charter from George II, and originally called "Kings College." The receipts for the last fiscal year were \$747,635, expenditures \$717,937. Reorganized in 1890 after the pattern of the German Universities. Five University Faculties were formed, including those of the School of Political Science and the School of Philosophy, to which has since been added the School of Pure Science. Degrees of Master of Arts and Doctor of Philosophy are granted. A graduate course is any course offered by the University Faculties of Political Science, of Philosophy, and of Pure Science, to students who have the A. B. degree or its equivalent. Most of these courses, however, are open to properly qualified seniors of the School of Arts. Women, by matriculating at Barnard College, may enjoy practically all the advantages of Columbia.

The year is divided into two terms. For 1895-6 these begin October 1st and February 10th. SETH LOW, President. Address THE SECRETARY OF THE PRESIDENT, New York City.

CORNELL UNIVERSITY.

Founded in 1865, and endowed with New York's apportionment of public lands under the Morrill Land Grant Act, in addition to large gifts from Ezra Cornell, the University was opened in 1868. For the year ending August 1st, 1894, the endowment was \$8,804,712.72 and the income \$608,291.11. Graduate instruction has been given since 1868, the first advanced degree being conferred in 1870. There is no separately organized Graduate Department, the work being in charge of a Faculty Committee on Graduate Work. Degrees of Master of Arts, Master of Philosophy, Master of Letters, Master of Science, Doctor of Philosophy, and Doctor of Science, are conferred. Cornell does not define a graduate course. Most of the elective courses are open to both graduates and undergraduates. Women are admitted on the same terms with men.

The year is divided into three terms. For 1895-6 it begins September 23d. JACOB GOULD SCHURMAN, President. Address D. F. Hoy, Registrar, Ithaca, N. Y.

HARVARD UNIVERSITY.

Founded in 1636 by the vote of the General Court of Massachusetts. The realized endowment at the close of the fiscal year 1893-4 was \$8,367,268.72. Income was \$1,054,484.17. The Graduate Department was organized in 1872. The degrees of Bachelor of Arts, Master of Arts, Doctor of Philosophy, and Doctor of Science, are open to such students in the Graduate School as have been accepted

as qualified for candidacy. The Faculty of Arts and Sciences distributes its courses into three groups, those intended primarily for Undergraduates, those for Graduates and Undergraduates, and those primarily for Graduates. The courses in the middle group are largely recommended to Graduate Students. The policy of the University is to draw no hard and fast lines between the groups, but to admit into any course students qualified to pursue it, irrespective of their academic standing. Women are not admitted; but many courses are open to Radcliffe Graduate Students.

The year is divided into two half-years. For 1895-6 these begin September 26th and February 10th. CHARLES WILLIAM ELIOT, President. Address RICHARD COBB, Asst. Secretary, Cambridge, Mass.

JOHNS HOPKINS UNIVERSITY.

Founded in 1867, through the munificence of Johns Hopkins, lectures being first delivered in 1876. Expenditures in 1890-1 were about \$170,000. University instruction is offered to advanced and graduate students whether candidates for a degree or not. The only advanced degree conferred is Doctor of Philosophy. The aim of graduate courses is "that while a student is becoming familiar with the work prosecuted and the results obtained elsewhere, and is adding to his general culture, he may be encouraged to become himself an independent and original investigator in his chosen field of labor." While the University does not exclude women, the number in attendance has been small.

The year is divided into two terms, beginning in October and February. D. C. GILMAN, President. Address T. R. BALL, Registrar, Baltimore, Md.

LELAND STANFORD JUNIOR UNIVERSITY.

Founded in 1885 by Hon. Leland Stanford and Mrs. Jane L. Stanford, the University was first opened to students in October, 1891. Income of the last fiscal year was about \$200,000. The advanced degrees of Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Science, are conferred. A graduate course is work accepted for an advanced degree in the department offering the course. Women are admitted to all courses on the same footing with men.

The year is divided into two semesters, beginning early in September and January. DAVID STARR JORDAN, President. Address O. L. ELLIOTT, Registrar, Stanford Univ., California.

UNIVERSITY OF MICHIGAN.

Founded in 1837, by an Act of the Legislature of Michigan, as a part of the public instruction, the first of its Departments was opened in 1841. Its endowment is \$540,000. The income of the last fiscal year was \$445,272.46. The Graduate School was organized in 1892. The degrees of Master of Arts, Master of Science, Master of Philosophy, Master of Letters, Doctor of Philosophy, Doctor of Science, and Doctor of Letters, are conferred. No definition of a graduate course is given, but no elementary work in any subject is allowed to count as graduate work. Women are admitted on the same terms with men.

The year is divided into two semesters, beginning about October 1st and February 15th. JAMES B. ANGELL, President. Address PROF. P. R. DEPONT, Registrar, Ann Arbor, Michigan.

UNIVERSITY OF MINNESOTA.

Originally organized by an act of the Territorial Legislature in 1851, the University was made the "State University" in 1857. It was reorganized in 1864, 1868, and 1872. Instruction in the college classes was first given in September, 1868. The annual income is about \$225,000. The Graduate Department was organized in 1895-6. The following advanced degrees are conferred: Master of Arts, Master of Science, Master of Literature, and Doctor of Philosophy. By a graduate course is understood a continuous systematic pursuit of some topic not offered to undergraduates and of a more advanced character than work required for a bachelor's degree. Women are admitted on the same terms with men.

The year is divided into three terms. For 1895-6 these begin September 10th, December 3d, and March 9th. **CYRUS NORTHROP**, President. Address **JABEZ BROOKS**, Minneapolis, Minn.

UNIVERSITY OF THE CITY OF NEW YORK.

Founded in 1831, instruction being begun in 1832. The endowment at the end of the last fiscal year was \$2,600,000. The income was \$135,000. The Graduate Seminary was organized in 1886. Degrees of Master of Arts, Master of Philosophy, Master of Science, Doctor of Philosophy, and Doctor of Science are conferred. By a graduate course the University means specialized work by a graduate student under the direction of a professor in such amount as may fitly occupy about one half of the student's time for an academic year. Women are admitted to the classes of the Graduate Seminary on the same terms with men.

The year consists of eight months of work, with no intermission, and begins October 1st. **HENRY M. MACCRACKEN**, Chancellor. Address **THE REGISTRAR**, Washington Sq., New York City.

UNIVERSITY OF PENNSYLVANIA.

Founded as the Charitable School in 1740, and becoming the "College and Academy of Philadelphia" in 1751, it was amalgamated with the University of the State of Pennsylvania under its present title in 1791. The Graduate Department (under the title "Department of Philosophy") was organized November 17th, 1885. The degrees of Master of Arts, Master of Science, and Doctor of Philosophy, are conferred. Courses in the Department of Philosophy are entirely distinct from the undergraduate work, and are such as are not represented at all in the undergraduate work. The Graduate Department for Women is an integral part of the Department of Philosophy. The courses are given by the same instructors and lead to the same degrees. Admission is on the same terms as for men.

The year is divided into two terms. For the Department of Philosophy these begin in October and February. **CHARLES C. HARRISON**, Acting Provost. Address **WILLIAM A. LAMBERTON**, Dean of the Department of Philosophy, Philadelphia, Pa.

PRINCETON.

COLLEGE OF NEW JERSEY.

Founded in 1746. A second and more ample charter was obtained in 1748, and this was confirmed and renewed after the Revolution. Every instructor in the College may, with

the consent of the Faculty, give instruction to graduates. The degrees of Master of Arts, Master of Science, Doctor of Philosophy, Doctor of Science, and Bachelor of Divinity are conferred. In addition to the courses open to graduates only, many of the courses of the Senior year and some of those of the Junior year are also open to them. These are not courses which are given for their disciplinary value, nor are they usually courses in which a subject is begun. They may be offered by a candidate for the degree of Master of Arts or Master of Science. Women are not admitted.

The year is divided into two terms. For 1895-6 these begin September 18th and February 6th. **FRANCIS LANDEY PATTON**, President. Address **PROF. W. F. MAGIE**, Princeton, N. J.

RADCLIFFE COLLEGE.

Radcliffe College, the successor of the Society for the Collegiate Instruction of Women, offers systematic collegiate instruction to women under the professors and other teachers of Harvard University. The requirements for admission are identical with those for admission to Harvard College. The courses of instruction given in Radcliffe College correspond to both undergraduate and graduate courses offered by Harvard University; and are more than sufficient to enable a woman to perform the work required by the University for the degrees of Bachelor of Arts and Master of Arts. In addition to these, graduate students in Radcliffe College now have access to fifty-four graduate courses in Harvard University. The examinations are the same in both institutions, and the diplomas conferring the degrees of A. B. and A. M. are countersigned by the President of Harvard University as a guarantee that these degrees are equivalent to the corresponding degrees given by the University.

The arrangement of the academic calendar corresponds to that of Harvard. AGNES E. IRWIN, Dean. Address MARY E. COES, Secretary, Cambridge, Mass.

VANDERBILT UNIVERSITY.

Founded in 1873 by the munificence of Cornelius Vanderbilt. The endowment at the end of the last fiscal year was \$900,000. Income was \$63,000. Graduate work has been carried on from the beginning. Degrees of Master of Arts, Master of Science, Doctor of Philosophy, and Doctor of Science are conferred. Any course is considered as graduate work which extends beyond the requirements for a bachelor's degree, and which can be counted on higher degrees. All advanced courses are open also to suitably prepared undergraduates. Women are admitted "students by courtesy." They are not formally matriculated but are recommended for degrees by the Faculty, on completion of course.

The session begins on September 18th, and ends June 17th. J. H. KIRKLAND, Chancellor. Address WILS WILLIAMS, Secretary, Nashville, Tenn.

WESTERN RESERVE UNIVERSITY.

Founded in 1826 as Western Reserve College. The interest bearing funds are over \$1,000,000, its property being valued at \$2,200,000. In 1894-5 receipts from funds were \$100,000. The Graduate School was established in 1892. Degrees of Master of Arts and Doctor of Philosophy are conferred. All courses open to Graduate Students are considered graduate courses, but starred courses are

open to them only as minors. The College for Women is a Department of the University, and women are admitted to the Graduate School on the same terms with men.

The year is divided into two terms, of which the first will begin September 19th, 1895, and the second February 10th, 1896. CHARLES F. THWING, President. Address R. W. DEERING, Dean of Graduate School, Cleveland, O.

UNIVERSITY OF WISCONSIN.

Founded by the State in 1849 and reorganized in 1866. The expenditures for 1893-4 were \$393,734.60. Income for 1894-5 is \$364,759. The Graduate Department, which had hitherto consisted mainly of advanced courses given in connection with the various schools, was separately organized in 1895. The degrees of Master of Arts, Master of Letters, Master of Science, and Doctor of Philosophy are conferred. Graduate courses are especially intended to encourage research and graduate instruction in the several departments presupposes generally the full undergraduate courses—required and elective—in such departments. Women are admitted on the same terms with men.

The year is divided into semesters. For 1895-6 these begin September 26th and February 10th. CHARLES KENDALL ADAMS, President. Address W. G. Hiestand, Registrar, Madison, Wis.

YALE UNIVERSITY.

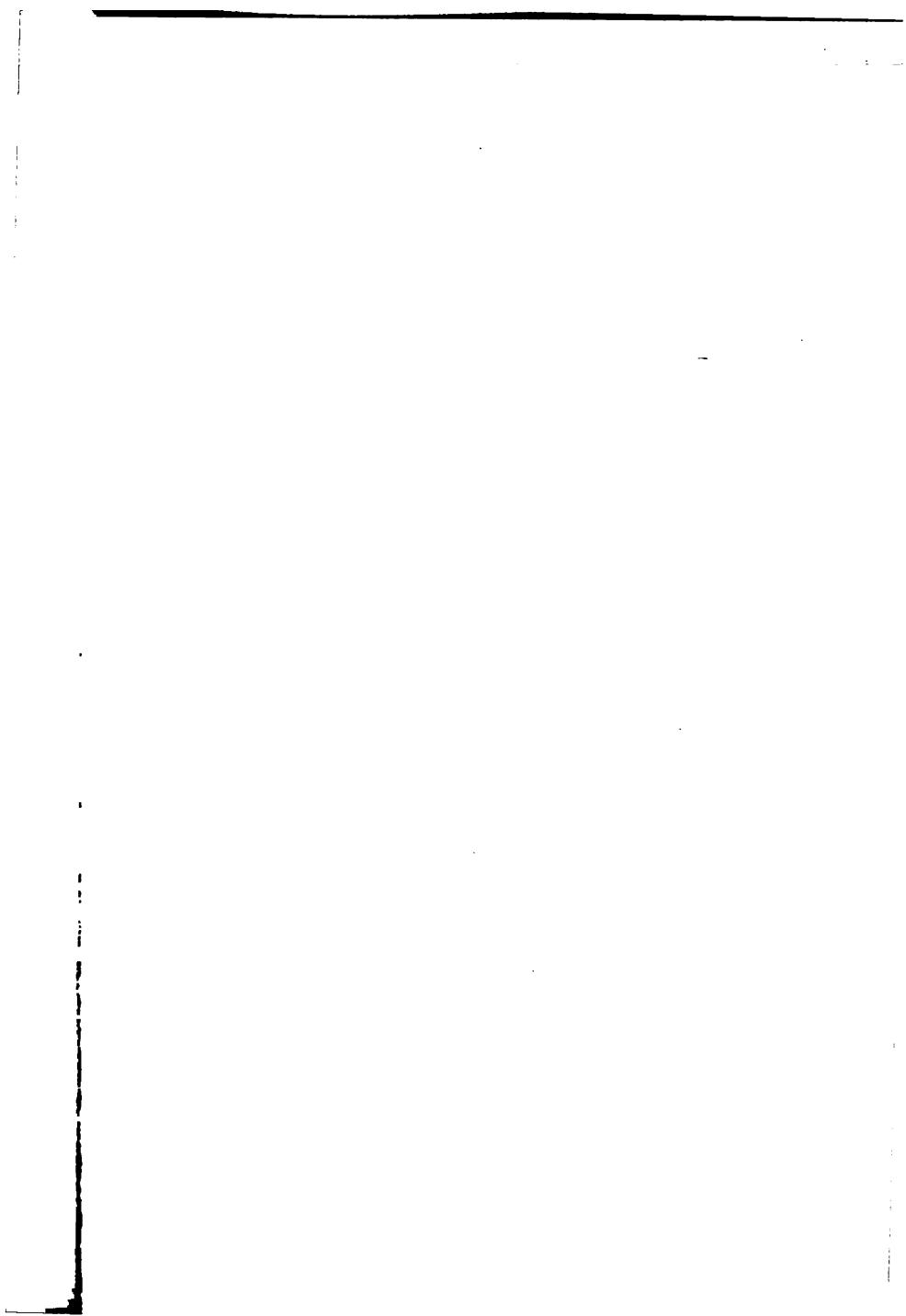
Founded in 1701 by a charter from the General Court of Connecticut, which endowed the college with an annual grant. Funds, exclusive of grounds, buildings and collec-

tions, in 1893 amounted to more than \$4,000,000. Expenditures in 1892-3 were over \$650,000. Graduate instruction was definitely organized in 1847. The advanced degrees of Master of Arts and Doctor of Philosophy are conferred. A graduate course is one of a character sufficiently advanced to entitle it to be credited in work for the degree of Doctor of Philosophy. Women are admitted on the same terms with men to courses leading to the Doctors' degree.

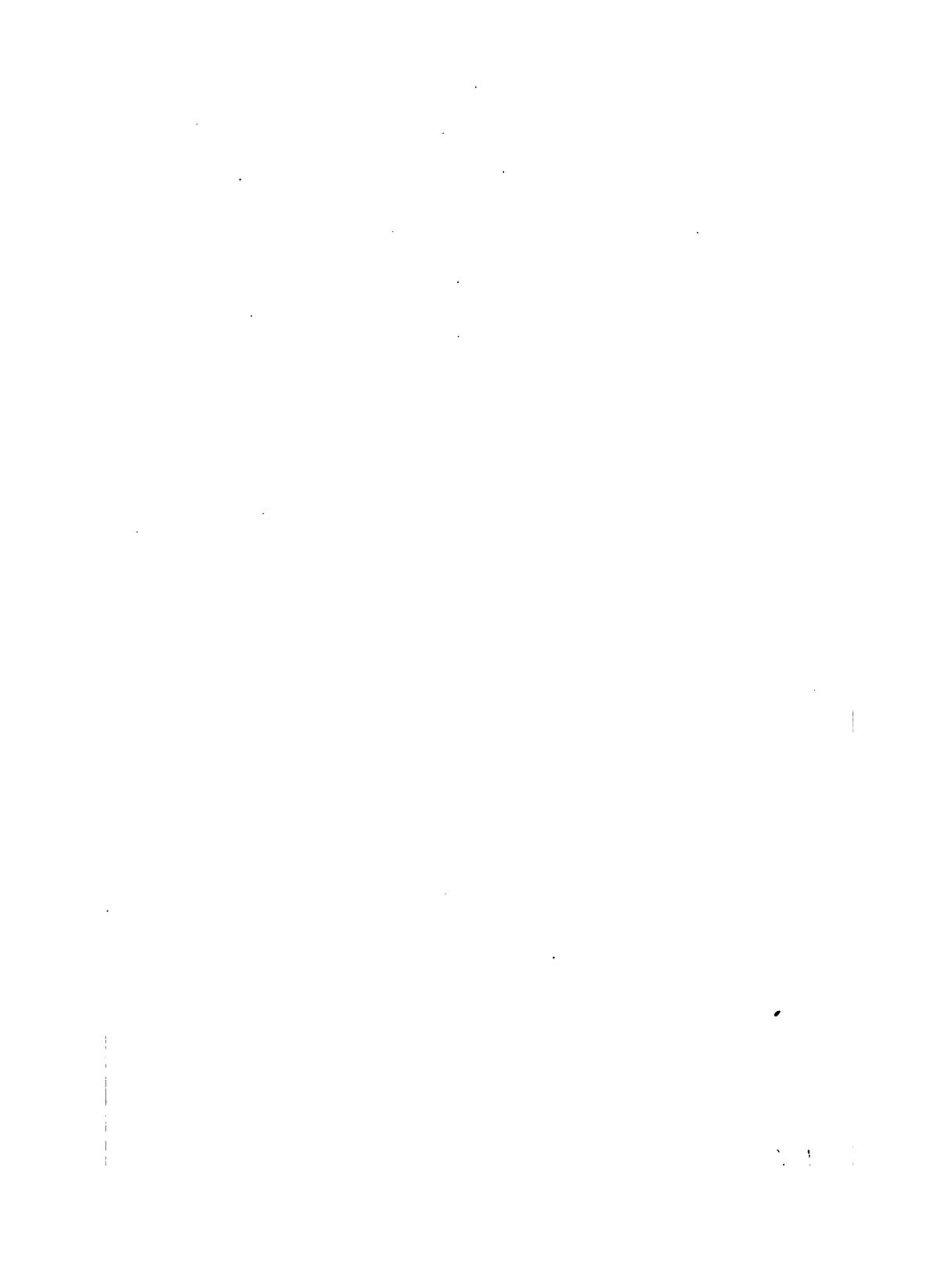
The year is divided into two terms. For 1895-6 these begin September 26th and January 7th. **TIMOTHY DWIGHT**, President. Address **ANDREW W. PHILLIPS**, Dean of Graduate Department, New Haven, Conn.

COURSES FOR WOMEN.

The provision for the advanced instruction of women made by the institutions included in this handbook is sufficiently indicated in the foregoing paragraphs; but it is worthy of remark that Clark and Princeton are the only universities of the number which give no instruction whatever to women.







EXPLANATORY.

The plan of these lists of Graduate Courses was: (1) to use convenient general titles for grouping courses on related subjects; (2) to mention special facilities in each department of the several institutions, with the fellowships and scholarships open to graduate students; (3) to state the numbers of graduate students who took courses in each department during 1894-5; (4) to present brief statements of the collegiate experience of instructors, with some of the subjects on which they have published; (5) to give all the advanced courses definitely offered by each instructor, using short titles, and indicating the amount of time required for each course; (6) to enclose in brackets all courses not to be given in 1895-6; (7) to mark with the asterisk courses open also to undergraduates; (8) to bring all the work of each instructor into a form for ready reference by an index of names.

Difficulties of classification have been met (to some degree at least) by the cross references under many department headings. The omission of biographical facts (*e.g.*, in the English Department of Harvard), and of notes on special facilities, has been by request in some cases; in others, it has been due to the very great difficulty of getting information within a limited time.

The figures of the numbers of graduate students in the several departments may be misleading if not properly interpreted. A graduate student may have taken courses in two or more departments — such student counts once in each of those departments. Except in the case of Columbia (and in certain cases for Yale and Vanderbilt, noted in Addenda), the absence of figures means there were no graduate students during 1894-5 in a particular group of courses. Some Assistant Editors found much trouble in getting the registration in the form demanded by the Handbook, and at Columbia the figures were not obtained at all.

A similar caution must be given as to the interpretation of the asterisk. Assistant Editors were asked to mark with the asterisk "courses open also to undergraduates." The responses disclosed almost irreconcilable differences of usage. "Graduate work" in each institution is conditioned by local plans of administration, as well as by the previous preparation of graduate students. Yet on the whole it has seemed best to retain the asterisk, even at the risk of suggesting unjustified comparisons, for the purpose of making clear to graduate students that certain courses are not designed primarily for them.

Following the brief title of a course are usually the number of hours per week (in small Roman) and number of weeks of appointment with instructor (in

numerals). One or more dashes, with a mark of interrogation, call attention to absence of this information. Unless months are given, a course usually extends from September or October to May or June (inclusive).

Bracketed courses, not given in 1895-6, usually may be expected in 1896-7.

The abbreviations for the names of the months are as follows: Ja., F., Mar., Ap., My., Jun., Jul., Au., S., O., N., D.

ADDENDA.

NUMBERS OF GRADUATE STUDENTS.

Chicago had, in 1894-5, 13 Graduate Students who took courses in Semitic; 3 in Biblical Greek; 21 in Sanskrit; 61 in Greek; 78 in Latin; 91 in English.

Vanderbilt had, in 1894-5, 2 Graduate Students who took courses in Semitic Languages and Literatures.

Yale had, in 1894-5, 5 Graduate Students who took courses in Semitic Languages and Literatures; 3 in Indo-Iranian Languages and Literatures; 16 in Classic Languages and Literatures; 14 in English Language and Literature.

OTHER LATE INFORMATION.

Edwin V. Morgan, A.M., Harvard, '91, will give the courses in History at Western Reserve, not assigned to an instructor. See page 65.

Samuel W. Johnson, Prof. of Theoret. and Agricult. Chem., A.M., Yale, '57, offers the following courses:

Chem. Physiology of Vegetation. ii, O.-D.

Agricult. Chem. ii, Ja.-Jun.

Dr. Charles J. Bullock will give the courses in Economics at Cornell, not assigned to an instructor. See page 72.

ERRATA.

Bryn Mawr Fellowships amount to \$525, not \$550. See pages 10, 21, 31, 36. Vanderbilt courses on page 6 should be marked with an asterisk.

Cornell's elementary course in Sanskrit on page 8 should be marked with an asterisk.

I. LANGUAGES AND LITERATURES.

1. SEMITIC LANGUAGES AND LITERATURES.

[Including Semitic History and Biblical Literature.]

BARNARD.

[See Columbia Courses marked B.]

BROWN.

2 Graduate Students, 1894-5.

(Chair Vacant).

*Hebrew. iii, 32.

*Old Test. Hist. iii, 32.

BRYN MAWR.

3 Graduate Students, 1894-5.

Semitic Library of A. Amiaud of Paris.

GEORGE A. BARTON, Assoc. in Bibl. Lit. and Semit. Langs.

A.B., Haverford, '82, and A.M., '85; A.M., Harv., '90, and Ph.D., '91.

Adv. Hebrew. ii, 30.

Adv. Assyrian. ii, 30.

Beginning Arabic. ii, 30.

Histor. outlines of Christian thought. i, 30.

Other courses to be arranged for, according to needs of students.

Journal Club, fort.

CALIFORNIA.

1 Graduate Student, 1894-5.

JACOB VOORSANGER, Prof. of Semitic Langs. and Lits.

Elements of Syriac. i, 32.

Hebrew (adv.). ii, 32.

*Elements of Hebrew. iii, 32.

CHICAGO.

*N. B.—In the Semitic dept. all courses are intended primarily for Graduate and Divinity Students, but may be taken by University College Students who are prepared. 2 fels. in Semitics, 2 in Theology, 2 in N. Test.

W. R. HARPER, President; Head Professor of Semitic Langs.

A.B., Muskingum Col., '79; Ph.D., Yale, '75; D.D., Colby; LL.D., Univ. of Neb.; Principal, Am. Inst. Sacred Lit.; Principal, the Chautauqua system.—Ed. *Biblical World and Hebraica*.

Begin. Hebr. x, 6, Jul.-Au., also Au.-S. (with Prof. Breasted). Also Ap.-My. (with Prof. Crandall).

Minor Prophets, Babylon. Period. iv, 6, Jul.-Au. Post-exilic, Au.-S.

Hebr. Gram. (adv.). iv, 12, Jul.-S.

Arabic (el.). iv, 6, Jul.-Au. Geog., Hist., Commentary, Au.-S. Later Suras of Quran, 12, O.-D. Poetry, Ja.-Mar.

O. Test. Prophecy. iv, 12, O.-D. Devel. of Lit., Ja.-Mar. Devel. of theol. ideas, Apr.-Jun.

Seminar in Semitics. iv, 12, O.-D., also Ja.-Mar., and Ap.-My.

Ethiopic. iv, 6, Ja.-F.

Comp. Semitic Gram. iv, 12, Ja.-Mar.

Books of Kings. x, 6, My.-Jun. (with Prof. Crandall.)

E. G. HIRSCH, Prof. of Rabbinical Lit. and Philosophy.

A.B., U. of Penn., '72, and A.M., '75; Ph.D., Leipzig, '76.—Ed. *Zeitgeist, Reformer, Reform Advocate*.

Hist. of Jewish Sects. iv, 6, Jul.-Au.

Chicago—Continued.

Arabic, Thousand and One Nights. iv, 6, Jul.—Au. Philos., Au.—S. Philos. Lit., Ap.—Jun.
 Ethiopic (adv.). iv, 6, Jul.—Au.
 Book of Job. iv, 6, N.—D.
 Rabbini. Lit. and Life. iv, 6, Au.—S. Com. on Genesis, O.—N. Philos., Ja.—Mar.
 Talmud (sem.). iv, 12, O.—D. Civil and Crim. Legisla., 6, Ja.—F. Analogies to N. Test., Ap.—My.
 Mandaic. iv, 6, F.—Mar.
 Gen. Intro. to Textual Crit. of O. Test. iv, 12, Ap.—Jun.

I. M. PRICE, Assoc. Prof. of Semitic Langs. and Lit.

A.B., Denison, '79; Prof. of Greek, Des Moines, '79—'80; D.B., Bapt. Union. Theol. Sem., '82; Instr. Am. Inst. Hebrew, '82—4; Ph.D., Leipzig, '87; Instr. in Semitic Langs., Bapt. Union Theol. Sem., '86—8.
 O. Test. Hist. of Canon and Text. iv, 12, O.—D. Mod. discoveries and O. Test., Ap.—Jun.
 Earliest Unilingual Cuneiform Inscrps. iv, 12, O.—D.
 Bk. of Jeremiah. iv, 6, Ja.—F. Ezekiel, F.—Mar.
 Biblical Aramaic. iv, 6, F.—Mar.
 Seminar in North Semitic Langs. iv, 12, Ja.—Mar. South Semitic Langs., Ap.—Jun.,
 Isaiah, i—xxxix. iv, 6, Ap.—My. Also, xxxix—lxvi, My.—Jun.
 Early Babylonian Inscrps. iv, 12, Ap.—Jun.

G. S. GOODSPEED, Assoc. Prof. of Anc. Hist. and Compar. Relig.

A.B., Brown, '80, and A.M., '83; D.B., Bapt. Union Theol. Sem., '83; Asst. in Semitics, Yale, '88—'91; Ph.D., same, '91.
 Hist. of Antiquity. viii, 6, Au.—S. Also, iv, 12, O.—D.
 Religions of India. iv, 12, O.—D.
 Greece, Rome, N. Europe, Ja.—Mar. Anc. Persia, Ap.—Jun.

Intro. to Hist. of Hebrew Monarchy. iv, 12, Ja.—Mar.

Contemp. Hist. of O. Test. iv, 12, Ap.—Jun.

R. F. HARPER, Assoc. Prof. of Semitic Langs. and Lit.

A.B., Old Univ. of Chicago, '83; Ph.D., Leipzig, '86; Instr. in Semitics, Yale, '87—8, and '89—'91; Assyriologist to the Expedition of the Babylonian Explora. Fund, '88—9.
 Bks. of Samuel. iv, 6, Jul.—Au. Kings, Au.—S.
 Assyrian Lang. iv, 12, Jul.—S.
 Early Hist. Inscrps. iv, 12, Jul.—S. Syriac (el.). iv, 12, O.—D. Adv. Ja.—Mar.
 Babylonian Hist. Inscrps. iv, 12, O.—D.
 Assyrian Syllabaries and Mytholog. Inscrps. iv, 12, Ja.—Mar.

C. E. CRANDALL, Univ. Extens. Instr. in Semitic Langs.

A.B., Milton Col., '79, and A.M., '85; D.B., Bapt. Union Theol. Sem., '85; Asst. in Semitics, Yale, '89—'91; Ph.D., same, '91.
 Hebrew sight reading in Samuel. ii, 6, Au.—S. In Deuteronomy, Au.—S., and Ja.—F. In Jeremiah, F.—Mar.
 Bks. of Chronicles. iv, 6, N.—D.
 Bk. of Judges. iv, 12, O.—D.

C. F. KENT, Univ. Extens. Instr. in Bibl. Lit.

A.B., Yale, '89; Foote Scholar, same, '89—'91; Ph.D., same, '91.
 Bks. of Kings. iv, 6, Ap.—My.

J. H. BREASTED, Assist. in Egyptian Lang. and Lit.

A.B., Northwestern, '89; A.M., Yale, '92; Fellow, Chicago, '92—4; Ph.D., Berlin, '94.
 Bk. of Deuteronomy. iv, 6, Au.—S. Egyptian (el.). iv, 12, Jul.—S., also O.—D. Texts of Classic Period, Ja.—Mar. Late Egyptian, Ap.—Jun.

Coptic. iv, 12, O.-D. Sahidic dialect, Ja.-Mar. Boheiric dialect, Ap.-Jun.

C. R. GREGORY, Professorial Lect. in Palaeog. and Textual Crit.

A.B., U. of Pa., '64; D.B., Princeton, '69; Leipzig: Ph.D., '76, Privat-doçent, '84. Professor extraordinarius, '89. Professor ordinarius-honorarius and D.D., '93; LL.D., U. of Pa., '94.

Greek Palaeog. iv, 6, Au.-S.

N. Test. Textual Crit. iv, 6, Au.-S.

E. D. BURTON, Head Prof. of N. Test. Lit. and Interp.

A.B., Denison, '76; Graduate, Rochester Theol. Sem., '82; Assoc. and Prof. in Newton Theol. Inst., '83-'92.

Bk. of Philippians. iv, 6, Au.-S. Matthew. iv, 12, O.-D. John, Ja.-Mar.

N. Test. Quotations. iv, 12, O.-D.

N. Test. Greek. iv, 12, Ja.-Mar.

Theol. of John. viii, 6, Ap.-My.

S. MATHEWS, Assoc. Prof. of N. Test. Hist. and Interp.

A.B., Colby, '84, and A.M., '87; Prof. of Hist. and Pol. Econ., same, '89-'94.

Social Hist. of N. Test. Times. iv, 6, Jul.-Au.

N. Test. Times in Palestine. iv, 12, O.-D.

N. Test. Times in the Graeco-Roman World. iv, 12, O.-D.

Hist. of the Apostolic Church. iv, 12, Ja.-Mar.

Acts of the Apostles. iv, 12, Ja.-Mar.

Hist. of Interpretation. iv, 12, Ap.-Jun.

Sociological Ideas of the Apostolic Age. iv, 12, Ap.-Jun.

W. MUSS-ARNOLT, Instr. in Biblical and Patristic Greek.

D.B., New Brunswick Theol. Sem., '82; Fellow, Johns Hopkins, '83-'8, and Ph.D., '88; Instr. in N. Test. Greek, same, '91-'3.

Psalms and Ecclesiastes in Greek. iv, 6, Jul.-Au.

Christian Lit. to Eusebius. iv, 12, O.-D.

Sub-apostolic Greek Lit. iv, 12, O.-D.

Philo. iv, 6, Ja.-F.

N. Test. Apocrypha. iv, 6, Ja.-F.

Origin of the Septuagint. iv, 12, Ap.-Jun.

Hist. of Criticism of the Gospels. iv, 12, Ap.-Jun.

C. W. VOTAW, Tutor in Biblical Lit.

A.B., Amherst, '88; D.B., Yale, '91; A.M., Amherst, '92; Docent, Chicago, '92-'4.

N. Test. Greek. viii-x, 6, Jul.-Au.

Rapid reading in N. Test. iv, 12, O.-D.

COLUMBIA.

[Courses marked B are open to Barnard students.]

Courses in Semitic at the Union Theological Seminary are open to students of Columbia, and may count as part of the work for the degrees of A.M. and Ph.D. The college and seminary libraries contain most of the periodicals which deal with Oriental research, all current theological periodicals, and are especially rich in works in Rabbinical Hebrew.

RICHARD J. H. GOTTHEIL, Prof. of Rabbin. Lit. and Semit. Langs.

B)*Bibl. Hebr. (el.). ii, 30.

B)*Bibl. Hebr. (adv.). ii, 30.

B)*Bibl. Hebr. (3rd course). ii, 30.

B)*Rabbin. Hebr., the Mishnah. i, O.-Ja.

B)Rabbin. Hebr., the Talmud. i, F.-My.

B)Rabbin. Hebr., Mid. Age Jewish Philos. i, F.-My.

B)Semitic Epigraphy (adv.). i, F.-My.

B)*Assyrian (el.). ii, 30.

B)[Assyrian (adv.) ii, 30.]

B)*Arabic (1st and 2d courses). ii, 30.

B)[Arabic (3d course). ii, 30.]

B)*Syriac (el.). ii, 30.]

B)Syriac (adv.). ii, 30.

B)Ethiopic. i, O.-Ja.

B)Seminar. Arabic. i, 30.

Columbia — *Continued.*

ABRAHAM YOHANNAN, Lecturer in Oriental Langs.

Grad. of Col. of Urmia, Persia; and of General Theolog. Sem., N. Y. City.

B) Modern Persian. ii, O.-Ja.

B) Armenian. i, F.-My.

HARVARD.

[Courses marked R are open to Radcliffe Graduate Students.]

7 Graduate Students, 1894-5.

Special Semitic Library, gift of J. H. Schiff. Semitic museum contains large collection of monuments, tablets, seals, coins, and photographs, providing means of original research.

CRAWFORD H. TOY, Hancock Prof. of Hebr., and other Oriental Langs.

A.M., Virginia, '95; Prof. So. Baptist Theolog. Sem., '69-'79.—Semitic Gram., Relig. of O. T., Quotations from O. Test. in N. Test.

*Hist. of pre-Christian Hebr. lit. iv, 16.

*Hist. Hebr. relig., compared with other Semitic relig. ii, 31.

*Hist. of the Bagdad Califate, Mohammedanism in India. Lects. on Lit. i, 31.

*[Hist. of the Spanish Califate.—The Korân. i, 31.]

R) Hebrew (adv.). iii, 31.

R) Arabic. ii-iii, 31. With ——.

R) Arabic (adv.). ii, 31. [Ethiopic. i, 31.]

R) Phoenician. Schröder's Phönizische Sprache. Corpus Inscriptionum Semiticarum. i, 31.

General Semitic Grammar. (Research).

Kitâb al-Agâni. (Research.)

DAVID G. LYON, Hollis Professor of Divinity.

Ph.D., Leipzig, '82.—Assyrian Lang. and Relig., Hebrew Hist.

*Hebrew (el.). ii, 31. With ——

*Babylonian-Assyrian hist. i, 31.

*History of Israel. ii-iii, 31.

R) Classical Aramaic. ii, 16, O.-Ja.

R) Jewish Aramaic. ii, 15, F.-My.

R) Assyrian (adv.). ii, 31.

R) Assyrian grammar (research).

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Ph.D., Johns Hopkins, '87; Instr. in Mod. Lang., W. R. Col. and Adelbert, '81-3; Instr. and Assoc. in Mod. Langs., Johns Hopkins, '86-'91.—Hist. Romance Lit.

- *[Modern French authors. iv, S.-Ja.]
- *[17th cent. Fr. Drama. iii, S.-Ja.]
- *[Fr. Renaissance Lit. iii, F.-Jun.]
- *Romantic School in Fr. iii, S.-Ja.
- *The 18th cent. in France. iii, F.-Jun.
- *[Spanish. iii, S.-Ja.]
- *Elementary Italian. iii, S.-Ja.
- *Advanced Italian. iii, F.-Jun.

M. N. COLVIN, Prof. Romance Langs.

Ph.D., Zürich, '88.

[Intro. to French Phonol. i, S.-Ja.]

[Old French Texts. ii, S.-Jun.]

Provencal. iii, S.-Jun.

Old Spanish. iii, S.-Ja.

[Old Italian. iii, F.-Jun.]

WISCONSIN.

4 Graduate Students, 1894-5.

EDWARD T. OWEN, Prof. of French Lang. and Lit.

A.B., Yale, '73; Prof. of French, Univ. of Cal., '86-7.—Notes on French books.

- *Correspondence of thought and lang. i, 19.

WILLIAM F. GIESE, Instr. in Romance Langs.

A.M., Harvard, '89; Instr. in Fr. and Span., Cornell, '91-3.

- *Fr. Lit. 16th-19th cents. —, —?

LUCY M. GAY, Instr. in French.

B.L., Wisconsin, '82.

- *Philol. course in oldest Fr. Lit. —, —?

YALE.

Mod. Lang. Club meets monthly.

JULES LUQUIENS, Prof. of Mod. Langs.

D.B., Univ. Lausanne, '66; Ph.D., Yale, '73; Prof. Mod. Langs., Mass. Inst. Tech.—The Avesta, French reader of pop. sci., French gram.

- *Fr. Lit. of 19th cent. i, 32.
- [Fr. Lit. of 17th cent. iii, 32.]
- *Early Fr. Lit. and Hist. Gram. ii, 32.
- Fr. Lit. of 18th cent. ii, 32.
- Fr. Critics and Criticism in 19th cent. i, 32.

H. R. LANG, Asst. Prof. of Romance Langs.

Ph.D., Strassburg, '90.—Spanish gram., proverbs, Portuguese lang. and lit.

Provencal Lang. and Lit. ii, 32.

- *El. Spanish. iii, 32.

*Spanish Lit. of 16th-17th cents. i, 32.

*El. Italian. iii, 32.

*Mod. Ital. Essayists. i, 32.

*Dante's Life and Works. i, 32.

R. L. TAYLOR, Instr. in French.

A.B., Hamilton, '82.

- *Syst. Readings in Fr. Lit. of 19th cent. ii, 32.

A. G. CAMERON, Asst. Prof. of French.

A.B., Princeton, '86; Ph.D., same, '91; Prof. French and German, Miami Univ., '88-'91.—Contes de Daudet, with notes.

Molière, life and works. i, 32.

7. COMPARATIVE LANGUAGE AND LITERATURE.

[Including Languages not otherwise classified. See also 1 to 6.]

BARNARD.

[See Columbia Courses marked B.]

BRYN MAWR.

HERMANN COLLITZ [see 5].

Gen. phonetics. i, O.-F.

Intro. to compar. philol. —, —?

Courses in Celtic and Slavonic langs.

CHICAGO.

CARL D. BUCK, Assoc. Prof. of Sanskrit and Indo-European Comp. Philol.

A.B., Yale, '86, and Ph.D., '89; Asst. Prof. Chicago, '92-4.

*Gen. Intro. to study of Indo-European Philol. iv, 6, O.-N.

*Outlines of Comp. Gram. of Greek and Latin. iv, 12, N.-F.

*Exercises in Greek and Lat. Comp. Gram. iv, 6, F.-Mar.

Greek Dialects. iv, 12, Ap.-Jun.

[Italic Dialects. iv, 12, Ap.-Jun.]

ALFRED W. STRATTON [see 2].

*Outlines of Comp. Gram. of Greek and Lat. iv, 6, Jul.-Au.

*Exercises in Greek and Lat. Comp. Gram. iv, 6, Au.-S.

F. V. COFFIN, Fellow in Comp. Philol.

A.B., Dalhousie, '86; A.M., Princeton, '89.

Hindu. iv, 12, Ja.-Mar.

E. BUCKLEY [see 8].

Elements of Japanese. iv, Jul.-Jun.

COLUMBIA.

[Courses marked B are open to Barnard Students.]

GEORGE E. WOODBERRY, Prof. of Literature.

A.B., Harvard, '77.—History of Wood Engraving, Life of Edgar Allan Poe, North Shore Watch, and other Poems, Studies in Letters and Life.

*History and Theory of Criticism. Plato, Aristotle, Horace, Quintilian, Sidney, etc. iii, 30.

The Practice of Criticism. Review of greater lit. works. Conference and disc. iii, 30.

BRANDER MATTHEWS [see 4].

*Epochs of the Drama. Greek, Latin, Spanish, English, French, German. ii, 30.

*[The Hist. of Modern Fiction. ii, 30.]

*Molière and his Influence on Eng. Comedy. i, O.-Ja.

R. J. H. GOTTHEIL AND A. V. W. JACKSON [see 3 and 2].

B)*Intro. to the Study of Language. ii, 30.

CORNELL.

12 Graduate Students, 1894-5.

Sem. room with ref. lib. of 2,500 vols. 1 grad. school. \$300 for Depts. of Comp. Philol. and Class. Archaeol.

B. I. WHEELER [see 3].

*[Intro. to Science of Lang. i, 32.]

*[Comp. Gram. of Greek and Latin langs. iii, 32.]

[Gothic Gram. ii, 20, Ja.-Jun.]

[Balto-Slavic Gram. ii, 9, Mar.-Jun.]

HARVARD.

7 Graduate Students, 1894-5.

Courses marked R are open to Radcliffe Graduate Students.]

The Modern Language Conference brings together instructors and students in the departments of English, German, French, Romance Philol. and Comp. Lit. for advanced study and research.

A. R. MARSH, Asst. Prof. of Comp. Lit.
A.B., Harv., '83.

*Mediaeval Lit. in the vulgar tongues, with esp. ref. to influ. of France and Provence. iii, 31.

R) Hist. of Latin Lit. in Mid. Ages (begin. with 4th cent.), and its relations to Classic and Modern Lit. iii, 31.

[Origin and Devel. of Hist. Epic Poetry in Mediaeval Europe. iii, 16, O.-Ja.]

[Legendary and poetic material of Celtic origin and its treatment in narrative poetry of Mid. Ages. iii, 15, F.-My.]

J. B. GREENOUGH AND C. R. LANMAN
[see 2 and 3].

[Greek and Latin comp. philol. iii, 31.]

E. S. SHELDON AND H. C. G. VON JAGEMANN [see 6 and 5].

Gen. Intro. to linguistic science. Phonetics. Change in lang. ii-iii, 15, F.-My.

JOHNS HOPKINS.

50 Graduate Students, 1894-5.

MAURICE BLOOMFIELD [see 2].

El. of linguistic science. Ethnol. of Indo-European peoples. i, 30. Comp. Gram. of Greek, Latin, German and Sanskrit. Hist. of vocalism. i, 30.

NEW YORK.

F. H. STODDARD [see 4].

Anglo-Saxon (intro.). ii, 30.

Anglo-Saxon (adv.). ii, 30.

English Philology. ii, 30.

PENNSYLVANIA.

4 Graduate Students, 1894-5.

MORTON W. EASTON [see 2].

Linguistics and Comp. Philol. ii, 30.

DANIEL G. BRINTON, Prof. of Am. Archaeol. and Linguistics.

A.B., Yale, '58; A.M., same, '60; M.D., Jeff. Col., '60; LL.D., same, '91; Sc.D., Univ. of Pa., '93.—Gen. Anthropol. and Ethnol. subjects.

Gen. Struct. of Am. Langs. ii, 30.

Traits of Linguistics of N. and S. America. ii, 30.

Gram. Struct. of Algonkian, Uto-Aztecian, Maya, and Kechua Stocks. ii, 30.

Reading in Nahuatl Tongue. ii, 30.

PRINCETON.

C. MARTIN [see 1].

Siamese. ii, 32.

BLISS PERRY, Prof. of Oratory and Aesthetic Criticism.

A.M., Williams; Instr. and Prof. Eng. and Elouc., Williams, '81-'93.

*Poetics. ii, 16, O.-Ja. Prose fiction. ii, 16, F.-My.

RADCLIFFE.

2 Graduate Students, 1894-5.

[See Harvard Courses marked R.]

A. R. MARSH.

*Mediaeval Lit. in the vulgar tongues, with special ref. to influ. of France and Provence. Lects. and theses. iii, 31.

WESTERN RESERVE.

L. S. POTWIN [see 4].

Sources of Eng. Lit. iii, S.-Ja.

WISCONSIN.

Graduate Student, 1894-5.

A. G. LAIRD [see 2].

*Comp. Greek Gram. ii, 38.

YALE.

E. W. HOPKINS [see 2].

Intro. to Comp. Syntax. ii, 32.

HANNS OERTEL, Instr. in Comp. Philol.

A.M., Yale, '88; Ph.D., same, '90.— Jaiminiya
Upanisad Brahmana.

Linguistics. ii, 32.

Phonetics. i, 32.

A. S. COOK [see 4].

Theories of Poetry. ii, 20, Ja.-Jun.

II. PHILOSOPHY, HISTORY, AND THE FINE ARTS.

8. PHILOSOPHY AND ETHICS.

BARNARD.

1 Graduate Student, 1894-5.

[See Columbia Courses marked B.]

BROWN.

24 Graduate Students, 1894-5.

E. BENJAMIN ANDREWS, Pres. of Univ., and Prof. of Moral and Intellectual Philos.

D.D., LL.D.; Pres. of Denison, '75-9; Prof. Pract. Theol., Newton Theol. Inst., '79-'82; Prof. Hist. and Pol. Econ., Brown, '83-'8; Prof. Pol. Econ. and Pub. Finance, Cornell, '88-9.—Hist. of United States.

*Practical Ethics. iii, 21, Ja.-Jun.

*Casuistry. i, 21, Ja.-Jun.

Christian Religion. i, 10, Ap.-Jun.

JAMES SETH, Prof. of Philos. and Natural Theology.

A.M., Edinburgh, '81; Hon. Sc.D., Columbia; Baxter Scholar, Edinburgh; Ferguson Scholar in Philos.; Prof. of Philos., Dalhousie and Halifax, '89-'92; Assoc. Prof. Nat. Theol., Brown, '93-4.—Ethical Principles.

*Hist. Greek Philos. iii, 12, S.-D.

*Hist. Med. and Mod. Philos. iii, 11, Ja.-Mar.

*Hist. Recent and Contemp. Philos. iii, 10, Ap.-Jun.

*Theoret. Ethics. iii, 12, S.-D.; ii, 11, Ja.-Mar.

*Philos. of Religion. iii, 22, Ja.-Jun.

BRYN MAWR.

D. S. MILLER, Assoc. in Philos.

Fel., Clark, '89-'90; Morgan Fel., Harv., '90-1; Walker Fel., '91-2; A.B., and A.M., '92; Ph.D., Halle, '93.

Recent philos. theories. ii, 30.

Philos. of Spinoza. ii, 30.

*Problems in philos. of nature. ii, 30.

*Continental philos. of 17th cent. iii, 30.

*Esthetics. ii, 30.

CALIFORNIA.

10 Graduate Students, 1894-5.

2 fels. in *Philosophy*.

GEORGE H. HOWISON, Mills Prof. of Intell. and Moral Philos. and Civil Polity.

A.M., LL.D., Marietta.

[Hegel's Logic. iv, 32.]

Philos. of Plato. iv, 32.

*Philos. of Kant. ii, 32.

*Ethics and Civil Polity. ii, 32.

CHICAGO.

55 Graduate Students, 1894-5.

3 fels. in *Philosophy*; 1 in *Comparative Religion*.

JOHN DEWEY, Head Prof. of Philos.

A.B., Vermont, '79; Fellow Johns Hopkins, '83-4, and Ph.D., '84; Prof. of Philos., Minn., '88-9; Prof. of Philos., Mich., '89-'94; Head Prof. of Philos., Chicago, '94-5.—Psychology, outlines of ethics.

Logic of Ethics. iv, 12, O.-I.

Psychol. of Ethics. ii, 12, Ja.-Mar.

Political Ethics. iv, 12, Ap.-Jun.

[Evolution of morality. iv, 12, O.-D. Hist. of polit. ethics, Ja.-Mar. 19th cent. ethical thought, Ap.-Jun.]

*Seminar. Hist. of Logic. iv, 36, O.-Jun.

*[Seminar. Intro. to contemp. metaphys. thought. iv, 12, O.-D.]
 [Seminar. Philos. of Hegel. iv, 12, O.-Jun.]

CHAS. A. STRONG [see 9].

Psychol. in its relations to Philos. iv, 12, Ap.-Jun.

JAMES H. TUFTS, Assoc. Prof. of Philosophy.

A.B., Amherst, '84; Instr. in Math., same, '85-7; D.B., Yale, '89; Instr. in Philos., Michigan, '89-91; A.M., Amherst, '90; Asst. Prof. of Philos., Chicago, '92; Ph.D., Freiburg, '92. — Windelband's Hist. of Philos., Kant's Teleology.

*Hist. of Philos. iv, 36, O.-Jun.

*Movements of thought in 19th cent. iv, 6, Jul.-Au.

*Kant's Critique of Pure Reason. iv, 6, Jul.-Au.; also iv, 12, O.-D.

Seminar. Philos. of Kant. iv, 36, O.-Jun.

[Seminar. Philos. of Hegel. iv, 36, O.-Jun.]

[Seminar. Eng. Philos. iv, 36, O.-Jun.]

*[Philos. German. ii, 36, O.-Jun.]

GEORGE H. MEAD, Asst. Prof. of Philos.

A.B., Harv., '88; Instr. in Philos., Mich., '91-3; Asst. Prof. same, '93-4.

Philos. of concepts of matter and motion in physical sciences. iv, 12, Ap.-Jun.

J. H. BARROWS, Haskell Lecturer on Comparative Religion.

A.B., and A.M., Olivet, '67-'70; D.D., Lake Forest; Chairman of World's Congress of Religions, '93.

*Relations of Christianity to the other religions. (Spring, 1896.)

E. BUCKLEY, Lecturer on Comparative Religion.

*Religions of China and Japan. iv, 12, Jul.-S.

*Northern Buddhism. iv, 12, O.-D.
 *Science of Religion. iv, 12, Ja.-Mar.
 *Seminar in Science of Religion. iv, 12, Ap.-Jun.

G. S. GOODSPEED [see 1].

*Religions of India. iv, 12, O.-D.
 Greece, Rome, N. Europe, Ja.-Mar. Anc. Persia, Ap.-Jun.

COLUMBIA.

[Courses marked B are open to Barnard Students.]

NICHOLAS M. BUTLER, Prof. of Philos. and Education.

A.B., Columbia, '82; A.M., '83, and Ph.D., '84; Univ. Fel. in Philos., '82-5; Asst. in Philos., '85-6; Tutor, '86-9; Adj. Prof., '89-90; Prof. of Philos., Ethics, and Psychol. and Lect. on Educa., '90-5; Pres. N. Y. Col. for Teachers, '87-91. — Ed. *Educational Review*.

B)*Gen. Hist. of Philosophy. ii, 30.

B)*Philos. of Kant, Fichte, Schelling, Herbart, Schopenhauer. ii, 30.

B)*[Brit. Philos. from Locke to Spenser. ii, 30.]

B)Philos. Seminar. i, 30.

JAMES H. HYSLOP, Prof. of Logic and Ethics.

A.B., Wooster, '77, and A.M., '79; Ph.D., Johns Hopkins, '87; Prof. Psychol., Bucknell, '88; Tutor in Philos., Columbia, '89-'90; Instr. in Logic and Ethics, '91-5. — Logic, Ethics, Psychol.

*Ethics (el.). ii, 30.

B)Practical Ethics. Charity, Divorce, Labor, etc. ii, 30.

B)[Systematic Ethics. ii, 30.]

B)Ethical Seminar. i, 30.

CORNELL.

21 Graduate Students, 1894-5.

Courses here announced and those in 9 belong to the Susan Linn Sage School of Philosophy, 10 officers of instruction. Kant coll. of 100 vols.; complete Spinoza coll. of 500 vols.; psychol. lab. of 6 rooms. The School issues the *Philos. Review*. Monthly conference of students, 3 fols., \$500 each, and 6 grad. schols., \$300 each.

*The staff gives an intro. course of lects. i, 32.

Cornell—Continued.

J. G. SCHURMAN, Pres. of the Univ. and Prof. of Mental and Moral Philos.

A.M., London Univ., '77; Sc.D., Edinburgh, '78; LL.D., Columbia; Gilchrist Scholarhip (Canadian), '75-8; Hibbert traveling fel., '78-'80; Prof. of Eng. Lit., Pol. Econ., and Psychol., Acadia Col., '80-2; Prof. of Metaph. and Eng. Lit., Dalhousie, '82-6; Sage Prof. of Philos., Cornell, '86-'91; Dean, '91.—Kantian Ethics and the Ethics of Evolution, Belief in God, Ethical Import of Darwinism, Agnosticism, Joint Ed. *Philos. Review* and *School Review*.

*Ethics. ii, 32.

Ethical Sem. ii, 32.

CHARLES M. TYLER, Prof. of Hist. and Philos. of Relig. and Christian Ethics.

A.B., Yale, '55, and A.M.; D.D., same, '92.—Relig. and philos. articles.

*Hist. of Relig. ii, 32.

*Christian Ethics. i, 32.

*Philos. of Relig. iii, 32.

Sem. Hist. and Philos. of Religion. ii, 32.

JAMES E. CREIGHTON, Assoc. Prof. of Mod. Philos.

A.B., Dalhousie, '87; Fel. in Philosophy, Cornell, '88-'9; Instr. in Philos., same, '89-'91; Ph.D., same, '92.—Joint Ed. of *Philos. Review*.

*Logic. ii, 9, Mar.-Jun.

*Hist. of Philos. iii, 32.

*[Critical Philos. of Kant. ii, 32.]

*Logical Theory. ii, 32.

*[Post-Kantian Idealism. ii, 32.]

Sem. in Mod. Philos. ii, 32 (with Dr. Albee and Mr. Schiller).

WILLIAM A. HAMMOND, Asst. Prof. of Anc. and Med. Philos.

A.B., Harv.; Ph.D., Leipzig, '91; Instr. in Anc. Philos., Cornell, '91-2.—Notion of Virtue in Plato, Dialogues, Anc. and Med. Philos.

*[Hist. of Anc. and Mediaeval Philos. ii, 32.]

*Politics of Aristotle. i, 32.

*Dialogues of Plato (Gk.). iii, 32.

Sem. in Anc. and Med. Philos. ii, 32.

ERNEST ALBEE, Instr. in Psychol. and Hist. of Philos.

A.B., Univ. of Vt.; Ph. D., Cornell, '94.—Beginnings of Eng. Utilitarianism.

*Leibniz's Philos. Works, Hume's Treatise of Human Nature, Kant's Critique of Pure Reason. iii, 32.

*Spinoza's Ethics. iii, 12, O.-D.

*Ethics (adv.). Types of Ethical Theory. ii, 32.

*[Hist. of Eng. Utilitarianism. ii, 32.]

FERDINAND C. S. SCHILLER, Instr. in Logic and Metaph.

A.M., Oxford.—The Riddles of the Sphinx.

*Rapid reading of Ger. Philos. i, 32.

*[Philos. of Evolutionism, with esp. ref. to Spencer. iii, 32.]

*German Pessimism. ii, 32.

*Modern Realism. iii, 32.

DAVID IRONS, Lect. in Philos.

A.M., St. Andrews, '91; Ferguson Scholar in Philos., '92-4; Ph.D., Cornell, '94.—Contrib. to *Mind*, *Philos. Review*, *Psychol. Review*.

*Recent Metaph. Theories. i, 32.

HARVARD.

42 Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

Philosophical Conference of adv. students and instructors meets monthly. Philosophical Club, an organization of students, meets fortnightly. 2 fols. of \$500 and \$450, preferably awarded to students of this dept.

G. H. PALMER, Alford Prof. of Nat. Relig., Moral Philos., and Civil Polity.

A.B., Harv., '64, and A.M., '67; Tutor in Greek, '70-3; Asst. Prof. Philos., '73-'83.—The Odyssey of Homer, a translation, Education.

*[Theory of morals, considered constructively. iii, 31.]

C. C. EVERETT, Bussey Prof. of Theol.

A.B., Bowdoin, '50, and A.M.; S.T.D., Bowdoin, '70, Harv., '74; LL.D., Bowdoin, '94.—Science of Thought, Ethics for young people.

- *Psychol. Basis of Relig. Faith. i, 31.
- *Content of Christian Faith. iii, 31.
- *Comparative Religion. ii, 31.

F. G. PEABODY, Plummer Prof. of Christian Morals.

A.B., Harv., '69, and A.M., '72; S.T.B., same, '72; S.T.D., Yale, '87.

- *[Philosophy of Religion. i, 31.]

JOSIAH ROYCE, Prof. of Hist. of Philos.

A.B., California, '75; Ph.D., Johns Hopkins, '78; Instr. in Eng., Univ. of Cal., '78-'82; Instr. in Philos., Harv., '82-5; Asst. Prof. Philos., '85-'92. Metaphysics, Philos. of Religion, Hist. Mod. Philos.

- *Philos. of Nature. iii, 31.
- *Metaphysics. Theoretical Philos. considered constructively. iii, 31.
- *Kant and Schopenhauer (lects. Prof. Royce, trans. of selections, Dr. Bierwirth). iii, 31.
- R)Metaph. Sem. Hegelian Syst. ii, 31.

GEORGE T. LADD, Prof. of Moral Philos. and Metaph. (Yale).

R)Ethical Seminary. ii, 31.

G. SANTAYANA, Instr. in Philosophy.

A.B., Harv., '86, and Ph.D., '89.

- *Descartes, Spinoza, Leibnitz. iii, 16, O.-Ja.
- *[English Philosophy from Hobbes to Hume. iii, 16, O.-Ja.]
- *Chief types of ethical thought, with spec. ref. to schools of Socrates and Kant. iii, 31.

JOHNS HOPKINS.

E. H. GRIFFIN, Prof. of Hist. of Philos.

A.B., Williams, '62, and A.M., '65; Prof. of Latin, Williams, '72-'81; Prof. of Rhetoric, '81-6, and Mark Hopkins Prof. of Intellectual and Moral Philos., '86-9; D.D., Amherst, '80; LL.D., Princeton, '88.

Modern Philos. Descartes to Kant. i, 30.

Mod. Ethical Theories. fort, 30.

LELAND STANFORD, JR.

DAVID S. JORDAN, Pres. of the Univ.

M.S., Cornell, '72; Instr. in Botany, same, '72-3; Prof. of Nat. Hist., Lombard, '72-3; M.D., Indiana Med. Col., '75; Prof. of Biology, Butler, '75-9; Ph.D., same, '78; Prof. of Zoology, Indiana, '79-'85; LL.D., Cornell, '86; Asst. U. S. Fish Com., '77-'91; Pres. Indiana Univ., '85-'91.

- *Organic Evolution. iii, 32.

EDWARD H. GRIGGS, Prof. of Ethics.

A.B., Indiana, '89, and A.M., '90; Instr. in Eng. Lit., same, '89-'91; Prof. Gen. Lit., '92-3.

- *Modern Eng. Ethical Philos. iii, 18.
- *Sem. in Ethical Theories. ii, 14.
- *Sem. in Hist. Morals. ii, 18.

MICHIGAN.

7 Graduate Students, 1894-5.

ALFRED H. LLOYD, Asst. Prof. of Philos.

A.B., Harv., '86, A.M., '88, and Ph.D., '93.

- *Hist. of Philos. iv, 34, O.-Jun. Kant. iii, 17, O.-F. [Spinoza. iii, 17, F.-Jun.] Hegel. iii, 17, F.-Jun.
- *[British Ethics. ii, 17, O.-F.]
- *Philos. and Pol. Econ. ii, 17, O.-F. Ethics. i, 17, F.-Jun.
- *Philos. of Religion. ii, 17, F.-Jun.

GEORGE REBEC, Instr. in Philos.

Ph.B., Mich., '91; Instr. in Eng., same, '91-3.

- *Ancient Ethics. ii, 17, O.-F. Plato's Republic. ii, 17, F.-Jun.

- *Aesthetics. ii, 17, O.-F. Relation of Rhetoric to Philos. ii, 17, F.-Jun.

MINNESOTA.

10 Graduate Students, 1894-5.

FREDERICK J. E. WOODBRIDGE, Instr. in Philos.

A.B., Amherst, '89.

Pre-Socratic Philos. ii, 36.

Philosophy of Kant. ii, 36.

Logic (adv.). ii, 36.

NEW YORK.

38 Graduate Students, 1894-5.

H. M. MACCRACKEN, Chancellor, and Prof. of Philos.

D.D., Wittenberg, '78; LL.D., Miami, '87; Chancellor, Univ. West. Pa., '80-4; Prof. Philos., N. Y. U., '84; Vice-Chancellor, same, '85-91. — Lives of church leaders, Kant, Lotze, Calvin, Psychology, Church and problems of Philosophy and Science.

Hist. of Ancient Philos. ii, 30.
Hist. of Modern Philos. ii, 30.
Contemporary Ethics. ii, 30.
Philosophy of Theism. ii, 30.

ADDISON BALLARD, Prof. of Logic.

A.M., Williams, '42; D.D., same, '67; Prof. Latin, Ohio Univ., '47-'54; Prof. Rhetoric, Williams, '54-5; Prof. Mathematics, Astronomy and Nat. Philos., Marietta, '55-7; Prof. Christian Greek and Latin, Lafayette, '72-9; Prof. Moral Philos. and Rhetoric, same, '79-'94.

Logic. ii, 30.
Logic of Christian Evidences. ii, 30.

GEORGE F. JAMES, Prof. of Hist. of Ethics.

Ph.D., Halle, '94; Gen. Sec. Univ. Extension Move., '90-3; Prof. Philos. and Ethics, N. Y. U., '94.

Comparative study of ethical systems. ii, 30.

F. F. ELLINWOOD, Prof. of Comparative Religion.

D.D., N. Y. U., '65; LL.D., same, '94.

Comparative Religion. ii, 30.

Comp. Relig. (adv.). ii, 30.

Philosophy of Religion. ii, 30.

PENNSYLVANIA.

82 Graduate Students, 1894-5.

REV. GEORGE S. FULLERTON, Vice-Provost of the Univ., and Dean of the College; Prof. of Intell. and Moral Philos.

A.B., Univ. of Pa., '79, and A.M., '82; D.B., Yale, '83; Instr. in Philos., '83-5; Adj. Prof.

Philos., '85-7; Ph.D. (hon.), Muhlenberg.—Theory of Knowledge, Hist. of Philos., Philos. of Theism, Identity.

Hist. of Anc. and Med. Philos. ii, 30.
[Hist. of Mod. Philos. ii, 30.]

WILLIAM R. NEWBOLD, Asst. Prof. of Philos.

A.B., Univ. of Pa., '87; Instr. in Lat., '89-91; Ph.D., '91; Lect. on Philos., '90-4.—Characteristics of Belief, Hypnotism.

Hist. of Ethical Theories. ii, 15.
[Anal. of Ethical Theories. ii, 15.]

PRINCETON.

95 Graduate Students, 1894-5.

Coll. on Aristotle and his philos., 300 vols.

F. L. PATTON, Pres., Robert Lenox Prof. of Bibl. Instruction, and Stuart Prof. of Ethics and Philos. of Religion.

*Theism. ii, 32.

*Theoretical Ethics. i, 16, O.-Ja.

C. W. SHIELDS, Prof. of Harmony of Science and Revealed Religion.

Philosophia Ultima, or Science of the Sciences.

Harmony of science and religion. ii, 16, F.-My.

Hist. and logic of sciences. ii, 16, F.-My.

Seminary.

A. T. ORMOND, Stuart Prof. of Mental Science and Logic.

Ph.D., Princeton.—Basal Concepts in Philos.

*Hist. Anc. Philos. ii, 16, O.-Ja.
Med., F.-My.

*Hist. Philos. Descartes to Kant. ii, 16, O.-Ja. Since Kant, F.-My.

*Metaphysics and theory of knowledge. ii, 16, O.-Ja.

*Outlines of Philos. ii, 16, F.-My.

*Induction and theory of logic. ii, 16, F.-My. (with J. G. Hibben).

Seminary. Contemp. Philos. ii, 32.
Selected topics in Philos. ii, 32.

J. G. HIBBEN, Asst. Prof. of Logic.

Ph.D., Princeton.

- *Theory of prob., symbolic logic. ii, 16, O.-Ja.

RADCLIFFE.

4 Graduate Students, 1894-5.

[See Harvard Courses marked R.]

W. JAMES.

- *Cosmology. Philos. of nature, evolution, materialism. iii, 16, O.-Ja.

H. C. BIERWIRTH.

- *Kant and Schopenhauer (lects.). iii, 16, F.-My.

G. SANTAYANA.

- *Chief types of ethical thought, with spec. ref. to schools of Socrates and Kant. iii, 31.

VANDERBILT.

COLLINS DENNY, Prof. of Mental and Moral Philos.

B.L., Univ. of Va.; A.M., Princeton.

- *Formal Logic. iii, 8.
- *Induction. iii, 5.
- *Theory of Morals. iii, 5.
- *Hist. of Philos. iii, 5.
- *Ethics (el.). iii, 12.
- *Outlines Hist. Philos. ii, 32.

WESTERN RESERVE.

2 Graduate Students, 1894-5.

M. M. CURTIS, Prof. of Philosophy.

A.B., Hamilton, '80; D.B., Union Theol. Sem., '83; A.M., Hamilton, '83; Ph.D., Leipzig, '90.—Locke's Ethical Philos.

- [British Philos. of 19th cent. iii, 18, F.-Jun.]
- Philos. of Spencer. iii, 18, F.-Jun.
- *[Greek Philos. and its relation to Rise of Christianity. iii, 18, S.-Ja.]
- *British Philos. from Bacon to Hume. iii, 18, F.-Jun.
- Philosophy in America. iii, 18, S.-Ja.
- *The Philosophy of Kant. iii, 18, F.-Jun.

H. A. AIKINS, Prof. of Philos.

Ph.D., Yale, '91; Instr. in Univ. Southern Cal., '88; Lect. on Hist. of Philos., Yale, '90-1; Prof. Logic and Philos., Trinity Col., N. C., '91-3; Hon. Fel., Clark, '92-3.—Hume,

*[Probs. in Psychol. iii, 18, S.-Ja.]

*[Hist. of Philos. iii, 18, S.-Ja.]

[Hist. of Philos. ii, 18, F.-Jun.]

Theory of Knowledge. ii, 18, S.-Ja.

*Philosophy of Religion. iii, 18, S.-Ja.

WISCONSIN.

4 Graduate Students, 1894-5.

JOHN W. STEARNS, Prof. of Philos. and Pedagogy.

A.B., Harv., '60, and A.M., '64; Prof. Latin, Chicago, '65-'74; LL.D., Chicago, '74; Prof. Pedagogy, Wis., '85-8.

*Hist. Greek Philos. iii, 19, F.-Jun.

*Hist. Eng. Philos. ii, 19, S.-F.

*Philos. Lotze. iii, 19, S.-F.

*Philos. Mod. Science. ii, 19, F.-Jun.

*Philos. Sem. (with Prof. Jastrow and Dr. Sharp). Fort.

JOSEPH JASTROW, Prof. of Exper. and Comp. Psychology.

A.B., Univ. of Pa., '82; Ph.D., Johns Hopkins.

*Logic (adv.). ii, 19, S.-F.

FRANK C. SHARP, Instr. in Philos.

A.B., Amherst, '87; Ph.D., Berlin, '92.

*Theory of Cognition. iii, 38.

*Ihering's Zweck im Recht. ii, 19, F.-Jun.

YALE.

19 Graduate Students (incl. Psychol. and Pedag.).
1894-5.

G. T. LADD, Prof. of Moral Philos. and Metaphysics.

A.B., West. Res., '64; A.M., Yale, '81, and West. Res.; D.D., West. Res., '84; LL.D., same, '95; Prof. Mental and Moral Philos., Bowdoin.—Theology, Physiological Psychology, Philosophy.

Intro. to Philos. ii, 32.

*Philos. Anthropol. ii, 32.

Ethics. ii, 32.

Philos. Sem. ii, 32.

Yale — *Continued.*

G. M. DUNCAN, Prof. of Philos.

A.B., Univ. City N. Y., '81, and A.M.; D.B., Yale, '84.—Philos. of Leibnitz.

Pop. Discussions in Philos. i, 32.
 *Hist. British Philos. ii, 32.
 Philos. of Hegel. i, 32.
 [Locke on Human Understanding. i, 32.]

E. H. SNEATH, Asst. Prof. of Philos.

A.B., Lebanon Valley, '81, and A.M., '84; D.B., Yale, '84, and Ph.D., '90.—Ed. Philos. of Reid, Ethical series.

Philos. Scepticism. ii, 32.
 *Continental Philos. ii, 32.
 *Ethics (adv.). i, 32.

ARTHUR FAIRBANKS, Instr. in Compar. Relig.

A.B., Dartmouth, '86; Ph.D., Freiburg, '90.—Ethics, esp. Greek.

Hist. of Relig. ii, 12, O.-D.
 Beginnings of Relig. i, 20, Ja.-Jun.
 Semitic Relig. i, 20, Ja.-Jun.
 [Compar. Relig. (adv.). ii, 20.]

E. F. BUCHNER [see 9.]

Philos. of Hist. ii, 32.

T. C. STEARNS, Lect. on Hist. Philos.

A.B., Yale, '86.

Greek Philos. —, —?

W. S. MORGAN, Lect. on Hist. Philos.

A.B.; B.D., Yale, '92; Ph.D., same, '95.

Critique of Pure Reason. ii, 32.

H. S. WILLIAMS [see 21].

Philos. of Life and Organism. i, 32.

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SAMUEL HARRIS, Prof. of Syst. Theol.

A.B., Bowdoin, '33, and A.M.; D.D., Williams, '55; Prof. Theol., Theolog. Sem., Bangor, '65-7; Pres. Bowdoin and Prof. Philos., '67-'71; LL.D., Bowdoin, '71.—Christianity, Philos. basis of Theism, Self-Revelation of God.

Philos. basis of Theism and Self-Revelation of God. ii, 32.

Special studies in Philos. of Relig. i, 32.

W. F. BLACKMAN, Prof. of Christian Ethics.

A.B., Oberlin, '77; D.B., Yale, '80; Ph.D., Cornell, '94.

Christian Ethics. ii, 32.

9. PSYCHOLOGY AND PEDAGOGICS.

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[See Columbia Courses marked B.]

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3 Graduate Students, 1894-5.

E. B. DELABARRE, Assoc. Prof. of Psychol.

A.M., Harv., '89; Ph.D., Freiburg, '91.

*Psychol. (lab. course). iii, 10, Ap.-Jun.

Psychol. (original experiments). i, 23, S.-Mar.

*Course in authors. iii, 33.
 Seminary. iii, 33.

W. B. JACOBS, Instr. in Pedagogy.

A.B., Brown, '82, and A.M., '85.

*Pedagogy. iii, 10, Ap.-Jun.

CALIFORNIA.

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ELMER E. BROWN, Prof. of Science and Art of Teaching.

Ph.D., Halle.

Child-life (sem.). i, 32.

*Theory of Education. iv, 32.

*Special problems in Educa. (sem.). ii, 32.

THOMAS P. BAILEY, Asst. Prof. of Science and Art of Teaching.

Ph.D., South Carolina.

Biological aspects of Pedagogy. ii, 32.

CHICAGO.

CHAS. A. STRONG, Assoc. Prof. of Psychology.

A.B., Rochester, '84; Instr. in Philos., Cornell, '87-9; Docent, Clark, '90-1; Assoc. Prof. of Philos., Chicago, '91-5.

*Morbid Psychol. iv, 12, Ap.-Jun.

*[Seminar. Psychology. iv, 12, Ap.-Jun.]

JAMES R. ANGELL, Asst. Prof. of Exper. Psychol.

A.B., Mich., '90, and A.M., '91; Instr. in Exper. Psychol., Minn., '93-4.

Seminar. Unsettled Problems in Psychol. iv, 12, Jul.-S.

Exper. Psychol. (training course). iv, 36, O.-Jun.

*Exper. Psychol. (training course). iv, 24, O.-Mar.

Exper. Psychol. (research). iv, 36, O.-Jun.

GEO. H. MEAD [see 8].

*Comp. Psychol. iv, 12, Ja.-Mar.

Methodology of Psychology. iv, 12, Ja.-Mar.

JULIA E. BULKLEY, Assoc. Prof. of Pedagogy.

*General Pedagogy. iv, 12, O.-D. Pestalozzi and Herbart, Ja.-Mar.

Eng. Pedagogy, Ap.-Jun.

*Seminar. iv, 36, O.-Jun.

CHAS. H. THURBER, Prof. of Pedagogy (Colgate).

*Higher Education. iv, 6, Jul.-Au.

*Inst. of Pedagogy. v, 6, Jul.-Au.

CLARK.

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A.B., Williams, '67, and A.M., '70; Ph.D., Harv., '78; Lect. in Williams and Harvard, '80; Prof. of Psychology, Johns Hopkins, '81-2; LL.D., Mich., '88, and Williams, '89.

Hist. of Psychol. and Philos. iv, 35, O.-Jun.

Systematic Psychol. ii, 35, O.-Jun.

Education. i, 35, O.-Jun.

Conference. iii-hr. sessions, weekly. Students' lect. course. i, 20, Ja.-Jun.

EDMUND C. SANFORD, Asst. Prof. of Psychology.

A.B., California, '83; Fel., Johns Hopkins, '87; Ph.D., same, '88; Instr. in Psychology, same, '88; Instr. in Psychology, Clark, '89-'92.—Asst. Ed. *Amer. Jour. Psychol.*

Psychological Practicum (lab. and lects.). iv-v, 35, O.-Jun.

Short lect. courses on special topics.

Original Research. Lab.

WILLIAM H. BURNHAM, Instr. in Pedagogy.

A.B., Harv., '82; Instr., Wittenberg, '82-3; Fel., Johns Hopkins, '85-6; Ph.D., same, '88; Instr. in Psychology, same, '88-9.

School Hygiene. i, 35, O.-Jun.

Present Problems in Education. i, 18, O.-F.

Hist. of methods, administration and discipline. i, 17, F.-Jun.

Conference. Weekly.

A. F. CHAMBERLAIN, Lect. in Anthropology.

A.B., Toronto, '86, and A.M., '89; Fel. in Mod. Langs., Univ. Col., Toronto, '87-'90; Fel. in Anthropol., Clark, '90-2, and Ph.D., same, '92.

General Anthropology, with special ref. to psychol. and pedag. anthrop. ii, 35, O.-Jun.

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N. M. BUTLER [see 8].

B)*Principles of Educa. ii, 30.

B)Educational Seminar. i, 30.

JAMES MCK. CATTELL, Prof. of Experimental Psychology.

A.B., Lafayette, '80, and A.M., '83; Ph.D., Leipzig, '86; Fellow, Johns Hopkins, '82-3; Asst., Leipzig, '83-6; Lect. Univ. of Cambridge, '88; Lect., Univ. of Pa., '88; Prof. Exper. Psychol., same, '88-'91.—Co-ed. *Psychological Review and Science*.

B)*Exper. Psychol. (el.). ii, 30.

B)Exper. Psychol. (adv.). ii, 30.

B)Memory, Imagery, Association, Attention. ii, 30.

B)Research in Exper. Psychol. Daily.

LIVINGSTON FARRAND, Instr. in Physiological Psychology.

A.M., Princeton, '91; M.D., Columbia, '91.

B)*Physiological Psychol. (el.). ii, 30.

B)Physiological Psychol. (adv.). ii, 30.

B)Abnormal Psychol. i, 30.

PROF. STARR (Col. of Physicians and Surgeons).

Diseases of Mind and Nervous System. i, 30.

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A.B., Hamilton, '52, and A.M., '55; Ph.D. (hon.), same; Prof. of Geology, Cornell, '79-'86.—Applied Geology, Hist. of Mod. Education.

*Institutes of Educa. iii, 32.

*School Supervision. i, 9, Mar.-Jun.

*Hist. of Educa. ii, 32.

Pedagogical Conference. ii, 32.

Pedag. Sem. ii, 32.

EDWARD B. TITCHENER, Asst. Prof. of Psychol. and Dir. of Psychol. Lab.

A.B., Oxford, '89; Ph.D., Leipzig, '92; A.M., Oxford, '94; Extension Lect. in Biol., Oxford, '92.—Leipzig School of Exper. Psychol., Chronometry, Psychol. optics, Am. Ed. *Mind*.

*Psychol. (el.). ii, 11, Ja.-Mar.

*Exper. Psychol. (with Mr. Pillsbury). iii, 32.

*Reading of Psychol. in French, Ger. or Italian. i, 32.

*[Hist. of Psychol. i, 32.]

*[Mental Pathology. i, 32.]

*Hist. of Aesthetics. i, 32.

Psychol. Sem. (with Mr. Pillsbury). ii, 32.

WALTER B. PILLSBURY, Asst. in Psychol.

A.B., Univ. Nebraska.

*Visual space perception. i, 32.

CHARLES G. WAGNER, Special Lect. on Mental Diseases.

A.B., Cornell, '80; M.D., Col. of Physicians and Surgeons.—Supt. State Hospital for the Insane, Binghamton, N. Y.

*Mental derangement. i, 9, Ap.-Jun.

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*Physiological Psychol. vi, 15, F.-My.

*Psychol. (adv.). iii, 16, O.-Ja.

R)Psychological lab. investigations.

R)Psychological Sem. 16, O.-Ja.

HUGO MÜNSTERBERG, Prof. of Exper. Psychol.

Ph.D., Leipzig, '85; M.D., Heidelberg, '87; Instr., Freiburg, '88-'91; Asst. Prof., '91-2.—Willenshandlung. Beiträge z. Exper. Psychol., Angaben u. Methoden d. Psychol., etc.

[Absent in Europe.]

Assists adv. students by correspondence.

P. H. HANUS, Asst. Prof. of Hist. and Art of Teaching.

B.S., Mich., '78; Prof. Math., Univ. of Col., '79-'86.—Applied Psychol., Hist. of Educa., Geometry in Gram. Schs., Mathematics.

*Hist. educa. theories and practices. ii, 31.

*Educational theory. i, 31.

*Methods of teaching science in el. and secondary schools. ii, 31. Organiza. and management public sch. and acad. ii, 31.

R) Pedagogical Seminary. i, 31.

LELAND STANFORD, JR.

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FRANK ANGELL, Prof. of Psychol.

B.S., Vermont, '78; Ph.D., Leipzig, '91; L.H.D., Vermont, '92; Asst. Prof. of Psychol., Cornell, '91-2.

*Adv. Psychol. ii, 32.

*Methods of Sensation Measurement. i, 32.

EARL BARNES, Prof. of Education.

A.B., Indiana, '90; M.S., Cornell, '91; Prof. of Hist., Indiana, '89-'91.

*Psychol. of Childhood. ii, 32.

*Seminary. ii, 32.

MICHIGAN.

11 Graduate Students, 1894-5.

B. A. HINSDALE, Prof. of Sci. and Art of Teaching.

LL.D., Ph.D.; Pres. Hiram, '70-'82.—The scientific, practical, institutional, and administrative, as parts of education.

*Hist. of Educa. iii, 34, O.-Jun.

*Comp. study of educa. systems. ii, 17, F.-Jun.

Seminary in the Herbartian Psychol. and Pedag. ii, 17, F.-Jun.

*Exper. Psychol. ii, 34, O.-Jun.
Laboratory research. vi-xv, 34, O.-Jun.

MINNESOTA.

5 Graduate Students, 1894-5.

HARLOW GALE, Instr. in Psychol.

A.B., Yale, '85.

*Experimental Psychology. Individual problems. iv, 36.

*Physiological Psychology. iv, 36.

DAVID L. KIEHLE, Prof. of Pedagogy.

A.M., Hamilton, '64; LL.D., '91; State Supt. Public Instr., '81-'94.

*Philos. of Education. iv, 12.

*Methodology. iv, 12.

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GEORGE F. JAMES [see 8].

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Ph.D., Muhlenberg, '87.—Pedagogics in Colleges, Metaphysical Assumption, Apperception as to method, etc.

Descriptive Psychology. ii, 30.

PENNSYLVANIA.

55 Graduate Students, 1894-5.

WILLIAM R. NEWBOLD [see 8].

Psychology. ii, 30.

[Psychol. of Conduct. ii, 30.]

Mental Disorganization. Sem. i, 30.

LIGHTNER WITMER, Asst. Prof. of Psychol.

A.B., Univ. of Pa., '88; Ph.D., Leipzig, '91; Asst. in Exper. Psychol., '89-'91; Lect. in Exper. Psychol., '91-3.—Aesthetics of Proportion.

Syst. course on Exper. Psychol. i-ii, thro' 2 yrs.

Special topics for class exper. i-ii, 30.

Sem. Child Psychol. i-ii, 30.

Individ. lab. work. ii, 30.

MARTIN G. BRUMBAUGH, Prof. of Pedagogics.

M.S., Brethren's Col.; A.M., Univ. of Pa., '93, and Ph.D., '94; Pres. Brethren's Col.

[Hist. of Educa. ii, 30.]

Inst. of Educa. ii, 30.

Seminary. i, 30.

PRINCETON.

11 Graduate Students, 1894-5.

W. B. SCOTT [see 21].

Physiological Psychol. (lects. and lab.). ii, 16.

J. M. BALDWIN, Prof. of Psychology.

Ph.D., Princeton, '86; Prof., Lake Forest, '87-8; Prof., Toronto, '89-'93.—Co-ed. *Psychological Review*, Asst. Ed. Johnson's Cyclop., general, experimental and child psychology.

*Gen. Psychol. (adv.). ii, 32.

*Exper. Psychol. (el.). ii, 16.

*Exper. Psychol. (adv.). Lab. vi, 32.

Exper. Psychol. (research). Lab. vi-xv, 32.

Seminary. Genitic and Social Psychol. i, 32.

H. C. WARREN, Demonstrator in Exper. Psychol.

A.M., Princeton, '91.—The Psychological index, experimental psychol.

Theory of Mental Measurements. ii, 16, O.-Ja.

RADCLIFFE.

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*Psychol. demonstr. and exercises, esp. the literature. —, —?

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P. H. HANUS.

*Hist. educa. theories and practices. ii, 31.

*Educa. theory. i, 31.

VANDERBILT.

COLLINS DENNY [see 8].

*Elements of Psychol. iii, 20.

*Comp. Psychol. iii, 12.

WESTERN RESERVE.

H. A. AIKINS [see 8].

*Educational Psychology. iii, 18, F.—Jun.

H. E. BOURNE [see 10].

*Education since the Renaissance. iii, 18, F.—Jun.

WISCONSIN.

1 Graduate Student, 1894-5.

JOSEPH JASTROW [see 8].

*Exper. Psychol. iii, 38.

*Comp. Psychol. iii, 19, S.-F.

*Abnormal Psychol. ii, 19, F.—Jun.

*Anthropological Psychol. ii, 19, F.—Jun.

JOHN W. STEARNS [see 8].

- *Problems in applied Psychol. ii, 19, F.-Jun.
- *Herbartian Pedagogy. ii, 19, F.-Jun.
- *School Supervision. ii, 19, S.-F.

YALE.

E. W. SCRIPTURE, Instr. in Exper. Psychol., and Director Psychol. Lab.

A.B., Col. City N. Y., '84; Ph.D., Leipzig, '91; Fellow, Clark, '91-2.—Asst. Ed. *Amer. Journal Psychol.*, psychology, terminology and methods, etc., educational psychol.

- *Physiol. and Exper. Psychol. ii, 32.
- *Lab. course in Psychol. ii, 32.
- *Psychol. (adv.). ii, 32.
- Educational Psychol. i, 32.
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- A.B., West. Col. of Iowa, '89; Ph.D., Yale, '93.
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G. M. DUNCAN [see 8].

- Psychol. (adv.). ii, 32.

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[See also 11, 12, and 13.]

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- [Hist. Mod. Europ. Historiog. i, 33.]
- Pract. research in Europ. Hist. i, 33.
- *Pract. research in U. S. Hist. i, 22, Ja.-Jun.; iv, 10, Ap.-Jun.
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*Europe in 19th cent., reconstruction in 1815. iv, 6, Jul.-Au.

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*Early Mediaeval Europe. iv, 12, Jul.-S.

*Feudal Period. iv, 36, O.-Jun.

*[Const. and Pol. History of Eng. from Egbert to Elizabeth. iv, 36, O.-Jun.]

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[Sem. English History. iv, 36, O.-Jun.]

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G. S. GOODSPEED [see 1].

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- *[History of Israel. iv, 36, O.-Jun.]
- *[The Ancient State. iv, 12, Ap.-Jun.]
- *Hist. of Greece to death of Alexander. iv, 12, Ap.-Jun.
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 Econ. Conf. ii, 30.
 Reading in Ger. Econ. i, 30.
 Theories of Value and Distribution. ii, 15.
 Research. i, 30.

PRINCETON.

1 Graduate Student, 1894-5.

1 fellowship, \$500.

WINTHROP M. DANIELS, Asst. Prof. of Pol. Econ.
 A.M., Princeton; Instr., Wesleyan, '91-2.—Arts. in *Banker's Mag.*
 *Economics (gen. course). ii, 16, O.-Ja.
 *Public Finance. ii, 16, O.-Ja.
 *Hist. Pol. Econ. ii, 16, F.-My.

RADCLIFFE.

5 Graduate Students, 1894-5.

W. J. ASHLEY.

- * Mediaeval Economic Hist. of Europe. iii, 31.
- * Modern Economic Hist. of Europe and America (from 1600). iii, 31.
- * Economic Theory since Adam Smith. iii, 16, O.-Ja., Prof. Ashley. iii, 15, F.-My., Prof. Taussig.
- Seminar (with Prof. Taussig and Asst. Prof. Cummings).

VANDERBILT.

5 Graduate Students, 1894-5.

FREDERICK W. MOORE [see 10].

- * Problems in Distribution. ii, 32.
- * Seminary. The Wealth of Nations. i, 32.

WESTERN RESERVE.

5 Graduate Students, 1894-5.

STEPHEN F. WESTON, Assoc. Prof. of Pol. and Soc. Sci.

- A.B., Antioch, '79, and A.M., '85; Asst. in Economics, Columbia, '92-4. — Finance, Justice in Taxation.
- * Money, Credit and Banking. i, S.-Ja.
- * Hist. U. S. Tariffs. i, F.-Jun.
- Seminary. Economic Theory since Adam Smith. F.-Jun.
- * Commerce and Transportation. iii, F.-Jun.

Economic History. ii, S.-Ja.

WISCONSIN.

21 Graduate Students (10 of whom were in absentia), 1894-5.

Weekly Sem. for discussion of current Econ. Lit. and study of selected topics. Location at the State capital gives special facilities for studying the State's activities and methods of administration.

RICHARD T. ELY, Prof. of Pol. Econ. and Director of the Sch. of Econ., Pol. Science and Hist.

- A.B., Columbia, '76; Ph.D., Heidelberg, '79; LL.D., Hobart, '92; Chair of Pol. Econ., Johns Hopkins, '81-'92. — French and Ger. Socialism, Labor Movement, Taxation in Am. States and Cities, Problems of To-day, Pol. Econ., Social Aspects of Christianity, Ed. Crowell's Lib. of Econ. and Pol.
- * Distrib. of Wealth. ii, 38.
- * Hist. Econ. Thought. ii, 19, F.-Jun.
- * Public Finance. iii, 19, S.-F.
- * Am. Public Finance. iii, 19, F.-Jun.
- Econ. Sem. Eng. and Germ. Socialists (with Prof. Scott). i, 38.

WILLIAM A. SCOTT, Assoc. Prof. of Pol. Econ.

- A.B., Rochester, '86; Prof. Hist. and Pol. Econ., Univ. So. Dak., '87-'90; Instr. in Hist., Johns Hopkins, '91-2; Ph.D., Johns Hopkins, '92. — Repudiation of State Debts in the U. S., Social Aspects of Pauperism and Crime.
- * Theories of Value. ii, 19, S.-F.
- * Theories of Rent, Wages, Profits and Int. ii, 38.
- * Theories of Production and Consumption. ii, 19, F.-Jun.

YALE.

7 Graduate Students (incl. Soc. Sci.), 1894-5.

Pol. Sci. Club holds regular meetings for discussion of original papers.

W. G. SUMNER, Prof. of Pol. and Soc. Sci.

- A.B., Yale, '63; LL.D., Univ. Tenn., '84. — Money, Wages, Protectionism, Soc. Classes, Elections, Biog. of Financiers.

Indus. Rev. Renaissance Period. ii, 32. Fall and Rise of Scandinavian Peasantry. 6 lects.

H. W. FARNAM, Prof. of Pol. Econ.

- A.B., Yale, '74; R.P.D., Strasburg, '78. — Joint ed. *Yale Review*, Guilds, Labor Quest., Poor Relief, etc.
- Economics of Poor Relief. i, 32.
- Mod. Organiza. of Labor. ii, 12, O.-D.
- Princ. Pub. Finance. ii, 20, Ja.-Jun.

Yale — Continued.**A. T. HADLEY, Prof. of Pol. Econ.**

A.B., Yale, '76, and A.M., '87.—Joint ed. *Yale Review*, R. R. Transportation, Econ. and Ethics.

Economic Problems of Corporations. i, 32.

Relation bet. Econ. and Ethics. i, 32.

A. T. HADLEY AND IRVING FISHER.

*Economics (gen. course). iii, 32.

A. T. HADLEY AND J. C. SCHWAB.

*Econ. Policy (2d year course). v, 32.

J. C. SCHWAB, Asst. Prof. of Pol. Econ.

A.B., Yale, '86; Ph.D., Göttingen, '89.—Ed. *Yale Review*, U. S. tax and fin., Finances of Confed. States.

U. S. Financial Hist. i, 32.

U. S. Public Finance. i, 12, O.—D. Finances of Confed. States. i, 20, Ja.—Jun.

IRVING FISHER, Asst. Prof. of Pol. Sci.

A.B., Yale, '88, and Ph.D., '91.—Mathemat. treatment of Econ.

Mechanism of Prices and Currency. ii, 32.

18. SOCIAL SCIENCE, ANTHROPOLOGY AND ETHNOLOGY.

[See also 8 and 12.]

BARNARD.

3 Graduate Students, 1894-5.

FRANKLIN H. GIDDINGS.

*Sociology. ii, 30.

Hist. and Recent Devel. of Sociol. Theory. i, O.—Ja.

[Crime and Penology. ii, 15, F.—My.]

Evolution of Family. i, 15, F.—My.

[Pauperism and Charities. ii, O.—Ja.]

Seminar. Sociology. i, 30.

Devel. of Social Theory. iii, 12, S.—D.

Social Philos. iii, 11, Ja.—Mar.

Segregation of Popula. iii, 10, Ap.—Jun.

ALPHEUS S. PACKARD [see 20].

*Anthropology. iii, 10, Ap.—Jun.

CHICAGO.

35 Graduate Students, 1894-5.

5 fellowships.

A. W. SMALL, Head Prof. of Sociol.

A.B., Colby, '76, and A.M., '79; Prof. Hist. and Pol. Econ., Colby, '81-8; Reader in Hist., Johns Hopkins, '88-9; Ph.D., same, '89; Pres., Colby, '89-92.—Intro. to study of society.

Methodology and Bibliography of Soc. Sci. viii, 6, Jul.—Au. Also iv, 12, Ap.—Jun.

*Problems of Social Statics. iv, 36, O.—Jun.

[Seminar. Psychology, Ethics, and Sociology of Socialism. ii, 36, O.—Jun.]

*Seminar. Problems of Social Dynamics. iv, 36, O.—Jun.

BROWN.

11 Graduate Students, 1894-5.

GEORGE G. WILSON, Prof. of Social and Polit. Science.

A.B., Brown, '86, A.M., '88, and Ph.D., '89; Assoc. Prof. of Social and Polit. Science, '91-5.

*Princ. of Sociol. iii, 12, S.—D.

*Social Conditions and Problems. iii, 21, Ja.—Jun.

JAMES Q. DEALY, Asst. Prof. of Social and Pol. Science.

A.B., Brown, '90; A.M., '92, and Ph.D., '95.

*Outlines of Constructive Soc. Philos. Society, iv, 12, O.-D. Govt., Ja.-Mar. Munic. Action, Ap.-Jun.

C. R. HENDERSON, Assoc. Prof. of Sociol.

A.B., Old Univ. of Chicago, '70, and A.M., '73; D.B., Baptist Union Theol. Sem., '73; D.D., same, '83; Asst. Prof. Sociol., Chicago, '92-4;—Dependents, Defectives, and Delinquents.

*Seminar. Organiza. for Promoting Soc. Welfare. ii, 36, O.-Jun.

*Social Institutions. iv, 36, O.-Jun.

MARION TALBOT, Assoc. Prof. of Sanitary Science.

A.B., Boston Univ., '80, and A.M., '82; B.S., Mass. Inst. of Technology, '88; Instr. Domestic Science, Wellesley, '90-2.

*General Hygiene. iv, 12, Ap.-Jun.

*Seminar. Sanitary Science. ii, 36, O.-Jun.

*House Sanitation. iv, 12, O.-D. Water, Food, Clothing, Ja.-Mar. Economy of Living, Ap.-Jun.

FREDERICK STARR, Assoc. Prof. of Anthropology.

S.B., Lafayette, '82; S.M., and Ph.D., '88; Prof. Biological Sciences, Coe Col., '84-8; In charge Dept. Ethnology, Am. Mus. of Natural Hist., '89-'91.

*Lab. Work in Anthropology. iv, 36, O.-Jun.

*Physical Anthropol. Lab. iv, 36, O.-Jun.

*[Physical Anthropol. (el.). iv, 12, O.-D.]

*Mexico. Archæology, ethnology. iv, 12, O.-D.

*General Anthropol. iv, 12, O.-D.

*Ethnology American Race. iv, 12, Ja.-Mar.

*Prehistoric Archæology. American. iv, 12, Ap.-Jun.

*Field Work in Anthropol. Mexico. Jul.-S.

*[Prehistoric Archæology. European. iv, 12, Ap.-Jun.]

*[General Ethnology. iv, 12, Ja.-Mar.]

E. W. BEMIS, Univ. Extens. Assoc. Prof. of Pol. Econ.

A.B., Amherst, '80, and A.M., '84; Ph.D., Johns Hopkins, '85; Lect., Amherst, '86; Adj. Prof. of History and Economics, Vanderbilt, '89-'92; Sec. Training Dept., Chicago, '92-4.

*Trades Unionism and Coöp. iv, 6, Jul.-Au.

*State as Agent for Soc. Amelioration. iv, 6, Jul.-Au.

CHARLES ZEUBLIN, Univ. Extens. Asst. Prof. of Sociol.

Ph.B., Northwestern, '87; D.B., Yale, '89.

*Devel. of Soc. Structure in Great Britain. iv, 12, Ap.-Jun.; also Jul.-S., '96.

G. E. VINCENT, Instr. in Sociology.

A.B., Yale, '85; Vice-Principal Chautauqua System, '88-pr; Fellow in Sociology, Chicago, '92-4—Introduction to Study of Society.

*Province of Sociol. and Relation to Special Soc. Sciences. iv, 12, O.-D.

*Soc. Anatomy, Physiol., and Psychol. iv, 24, Ja.-Jun.

*Introduction to Study of Society. 4-12, Ap.-Jun.

W. I. THOMAS, Instr. in Ethnic Psychol.

A.B., Univ. of Tenn., '84, A.M., '85, and Ph.D., '86; Prof. of Eng., Oberlin, '89-'94; Fellow in Sociology, Chicago, '93-4.

*Comparative Psychol. of Human Races. iv, 36, O.-Jun. Synopsis of same. iv, 12, Jul.-S.

*Somatic and Psychic Hist. of Woman. iv, 24, O.-Mar. Synopsis of same. iv, 12, Jul.-S.

*Historical Sociologies. iv, 24, Jul.-S., and Ja.-Mar.

*Primitive Art. iv, 12, Ap.-Jun.

*[Animism. iv, 24.]

MAX WEST, Ph.D., Docent in Sociol.

A.B., Columbia, '88; A.M., Ibid, '89; Ph.D., Ibid, '90.

Chicago—Continued.

- *Settlement Movement. iv, 6, Jul.—Au.
- *Origin and Evolution of Society. Prof. Giddings' System. iv, 6, Au.—S.
- *Soc. Aspects of Taxation. iv, 12, Ap.—Jun.

CLARK.

4 Graduate Students, 1894-5.

A. F. CHAMBERLAIN [see 9.]
General Anthropology. ii, 35.

COLUMBIA.

Opportunities for practical work in Social Settlements, Charity Organization, etc.

FRANKLIN H. GIDDINGS, Prof. of Sociology.

A.M., Union.—Ed. Am. Econ. Assn. Monographs, Assoc. ed. Vol. I Annals, Am. Acad. Pol. and Soc. Sci., profit sharing, distribution, theory of capital and interest, theory of sociology, joint ed. *Pol. Sci. Quar.*

- *Gen. Sociology. ii, O.—Ja.
- *Evolution of Family. ii, F.—My.
- *Pauperism, Poor Laws, and Charities. ii, O.—Ja.
- *Crime and Penology. ii, F.—My.
- Seminar in Sociology. ii, fort., 30.

R. MAYO-SMITH [see 12].

- *Theory and Pract. of Statistics. ii, 30.
- Seminar in Statistics. iii, 30.

E. R. A. SELIGMAN [see 12].

- *Social Effects of Taxation. ii, 30.
- *Railroad Problems, econ., social and legal. ii, F.—My.

J. B. CLARK [see 12].

- Communistic and Socialistic Theories. ii, O.—Ja.

L. FARRAND [see 9].

- *Anthropology. ii, F.—My.

WILLIAM Z. RIPLEY, Lect. on Phys. Geog. and Anthropology.

- *Physical Geog. and Anthropol. ii, O.—Ja.

CORNELL.

12 Graduate Students, 1894-5.

1 fel. \$600. *Special coll. on Statistics.*

WALTER F. WILLCOX, Assoc. Prof. of Social Science and Statistics.

A.B., Amherst; Ph.D., Columbia; Instr. in Philos., Cornell, '91-2; Asst. Prof. Social Science and Pol. Econ., '92-4.—Marriage and Divorce, Vital and Social Statistics.

- *Social Science (el.). ii, 32.
- *[Condition of Labor. ii, 32.]
- *Seminary. Social Science (theoretical). ii, 32.
- *Social Statistics. ii, 32.

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*Socialism and Communism. ii, 12, O.—D.

HARVARD.

14 Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

2 prizes, \$100 each, for essays on social questions. Peabody Mus. Am. Archaeol. and Ethnol., with its library, is intended for research. 1 fel. of \$1000 in Ethnol., 1 of \$500 in Archaeol. and Ethnol., 1 schol. of \$200 in Archaeol. and Ethnol.

F. G. PEABODY [see 8].

- *Ethics of Social Questions. iii, 31.
- Sociological Sem. Christian Doctrine of the Social Order. ii, 31.

EDWARD CUMMINGS, Asst. Prof. of Sociology.

A.B., Harv., '83, and A.M., '85.

- *Soc. and econ. condi. of working-men. iii, 31.

- *Principles of Sociol. Dev. of mod. state and its soc. functs. ii-iii, 31.

- *Communism and Socialism. Utopias, anc. and mod. ii-iii, 15, F.—My.

F. W. PUTNAM, Peabody Prof. of Am. Archaeol. and Ethnol., and Curator Peabody Mus.

A.M. (hon.), Williams, '68; S.D. (hon.), Univ. of Penn., '94; Curator Dept. Anthropol. Am. Mus., Central Park, N. Y.

Three years' course in Archaeol. and Ethnol. (research). (With G. A. Dorsey, A.B., Denison, '88; Harv., '90; Ph.D., Harv., '94.)

R)General Anthropol., with spec. ref. to Am. Archaeol. and Ethnol. (Preliminary to above.) iii, lab., 31.

LELAND STANFORD, JR.

E. A. Ross [see 12].

*Sociology. ii, 32.

*Cities. ii, 14.

MICHIGAN.

4 Graduate Students, 1894-5.

C. H. COOLEY, Instr. in Sociology.

A. B., Mich., '87; Ph. D., same, '94; Chief of transport, div. 11th cens.—Transportation, esp. fed. regulation of safety appliances and urban transport, theory of statistics.

*Principles of Sociology. iii, 17, O.—F. Problems, F.—Jun.

*Sociology (adv). ii, 17, F.—Jun. Histor. Devel. of Sociolog. Thought. iii, 6, J.—F.

[Relat. of Sociol. to other branches of research. iii, 6, J.—F.]

[Aims and Methods in the study of Society. iii, 6, J.—F.]

Town and Country. Distribution of pop. iii, 6, My.—Jun.

[Current changes in the social organization of the U. S. iii, 6, My.—Jun.]

[Theory of Population. iii, 6, My.—Jun.]

MINNESOTA.

1 Graduate Student, 1894-5.

SAMUEL G. SMITH, Lect. on Sociology.

A. B., Cornell Col., '72; A. M., and Ph. D., Syracuse, '84; D.D., Upper Iowa Univ., '86. Individual research directed.

NEW YORK.

I. F. RUSSELL, Prof. of Law of Contracts in N. Y. U. Law School.

A.M., N.Y.U., '88; LL.M., Yale, '79; D.C.L., Yale, '80; LL.D., Dickinson, '93; Prof. Economics and Constitutional Law, N. Y. U., '80-'93.—Outline Study of Law.

Intro. to Sociology. ii, 30. Principles of Sociology. iii, 30.

PENNSYLVANIA.

1 Graduate Student, 1894-5.

SAMUEL M. LINDSAY, Instr. in Social Sci.

Ph.B., Univ. of Pa., '89; Ph.D., Halle, '92.

Practical Sociol. iii, 30.

Hist. and Theory of Mod. Socialism. ii, fort., 30.

Conf. in Social Theory. ii, fort., 30.

D. G. BRINTON [see 7].

Methods of Archaeol. Explor. ii, 30. Remains in Archaeol. Provinces of N. and S. America. ii, 30.

Relat. of Archaeol. to Ethnog. ii, 30.

RADCLIFFE.

[See Harvard Courses marked R.]

EDWARD CUMMINGS.

*Principles of Sociol. * Dev. of mod. state and its soc. functs. ii, 31.

*Soc. and econ. condi. of workingmen. iii, 31.

*Public Finance. Tariff and Financial History of U. S. Taxation and Management Pub. Debts. —, —?

WESTERN RESERVE.

C. F. THWING, Pres. of the Univ.

D.D., Chicago Theolog. Sem., '88.

The Family as an Historical and Social Institution. —, S.—Ju.

Western Reserve — *Continued.*

M. M. CURTIS [see 8].
 Anthropology. iii, S.-Ja.
 Psychology of Society. iii, S.-Ja.
 S. F. WESTON [see 12].
 Social Economics. ii, S.-Jun.

W. G. SUMNER [see 12].
 Beginnings of Industr. Organiza. ii, 32.
 [Anthropology. ii, 32.]
 *Science of Society. ii, 32.

W. F. BLACKMAN [see 8].
 Social Science. ii, 32.
 Hist. of Marriage and Family. i, 32.

14. FINE ARTS AND THE HISTORY OF ART.

[Including Classical Archaeology. See also 3 and 13.]

BRYN MAWR.

Dept. opened 1895-6.

RICHARD NORTON, Lect. in Archaeology (elect).
 A.B., Harv., '92.
 Class. Archaeol. ii, 30.
 *Hist. of Gk. Art. ii, 30.
 *Hist. of Ital. Art. ii, 30.

BROWN.

WILLIAM C. POLAND, Prof. of Hist. of Art and Director of Museum of Fine Arts.

A.M., Brown, '71; Instr. Gk. and Lat., '79-5; Asst. Prof. Gk. and Lat., '76-'89; Assoc. Prof. Gk. and Cur. Mu. Class. Archaeol., '80-'92; Annual Dir. Am. School Class Studies, Athens, '91-2.

*Class. Archaeol. iii, 33.
 *Hist. of Art. iii, 33.

CHICAGO.

7 Graduate Students, 1894-5.

F. B. TARBELL [see 3].

Classical Archaeology (intro.). iv, 12, O.-D. Hist. Gk. Sculpture, Ja.-Mar. Vases and Coins, Ap.-Jun.

YALE.

W. G. SUMNER [see 12].
 Beginnings of Industr. Organiza. ii, 32.
 [Anthropology. ii, 32.]
 *Science of Society. ii, 32.

W. F. BLACKMAN [see 8].
 Social Science. ii, 32.
 Hist. of Marriage and Family. i, 32.

COLUMBIA.

Lectures in this department are delivered from time to time. In '04-5, Henry Rutgers Marshall, A.M., delivered a course of lectures on Aesthetic Principles. Instruction in Drawing, Architecture, etc., is given in the School of Mines.

CORNELL.

4 Graduate Students, 1894-5.

Instruction given in connection with the museum of Class. Archaeol., over 500 large casts of sculpture representing the hist. of Greek and Roman sculptural art. 1 grad. school, \$300 assigned to Class Archaeol. and Comp. Philol.

ALFRED EMERSON, Assoc. Prof. of Class. Archaeol., and Curator of Museum of Casts.

Ph.D., Munich, '81; Fellow in Greek, Johns Hopkins, '82-4; Instr. in Class. Archaeol., '84-5; Prof. of Latin, Miami, '87-8; Prof. of Greek, Lake Forest, '88-'91.—De Hercule Homeris, Recent Progress in Class. Archaeol.

*Classical Archaeology. ii, 32.
 *Hist. of Sculpture. ii, 32.
 *Hist. of Painting. ii, 32.
 *Museum Studies. i, 32.
 Archaeol. Sem. ii, 32.

CHARLES BABCOCK, Prof. of Architecture.

A.B., Union, '47, and A.M., '50.

*Hist. of Architecture. iii, 12, O.-D.

HARVARD.

8 Graduate Students, 1894-5.

CHARLES ELIOT NORTON, Prof. of History of Art.

A.B., Harv., '46, and A.M., '49; Litt.D., Cambridge (Eng.), '84; LL.D., Harv., '87; L.H.D., Columbia, '88.

*[Ancient Art. iii, 31.]
Assistance and direction of advanced students.

PROF. NORTON AND ASST. PROF. C. H. MOORE.

Anc. and Med. Art. iii, 16, O.-Ja., Prof. Norton. iii, 15; F.-My., Prof. Moore.

LELAND STANFORD, JR.

2 Graduate Students, 1894-5.

Cesnola collection; 5000 pieces of Greek and Roman pottery and glass.

W. MILLER [see 3].

Archaeological Seminary. ii, 32.

MICHIGAN.

1 Graduate Student, 1894-5.

M. L. D'OOGE [see 3].

*Hist. of Greek Art. iii, 17, O.-F.

FRANCIS W. KELSEY [see 3].

*Intro. to Roman Archaeology. iv, 17, F.-Jun.

JAS. A. CRAIG [see 1].

*Assyrian-Babylonian Archaeol. Babylonian Art from earliest times. ii, 17, O.-F.

NEW YORK.

30 Graduate Students, 1894-5.

WALLACE WOOD.

History of Art. ii, 10.

Greek Antiquities, etc. ii, 10.

PRINCETON.

Fellowship of \$500 in Archaeology.

ALLAN MARQUAND, Prof. of Archaeology and History of Art.

Ph.D., Johns Hopkins, '80; Instr. in Hist. of Art, '82-3.—Ed. *Am. Jour. of Archaeol.*, Epicurean logic, logical diagr., logical machines, hist. sculpture and painting, var. archaeol. papers.

Greek Sculpture. ii, 16, O.-Ja.

*Renaissance painting. ii, 16, F.-My.

A. L. FROTHINGHAM, JR., Prof. of Archaeol. and Hist. of Art.

Ph.D., Leipzig, '83.—Founder and Manag. Ed. *Am. Jour. Archaeol.*, Oriental lit., Book of Hierotheos, hist. sketch Syriac lit., Gnostic aeons, bapt. of Constantine, hist. sculpt. and paint., treas. St. Peter's, var. Oriental, Early Christian, Romanesque and Gothic archaeol. papers.

*Romanesque art. ii, 16, O.-Ja.

*Gothic art. ii, 16, F.-My.

[Other courses may be arranged for.]

YALE.

J. M. HOPPIN, Prof. of Hist. of Art.

A.B., Yale, '40; LL.B., Harvard, '42; D.D., Knox, '70; Prof. Homiletics and Pastoral Theol., Yale, '61-'79; Lect. on Forensic Eloquence, Yale Law School, '72-5.—Homiletics, Theology, Essays upon Art.

Hist. of Art (lects.). i, 20, Ja.-Jun.

J. F. WEIR, Prof. of Painting and Design.

A.M., Yale, '71.

Technical Course in Painting. iv, 32.
Course in Modeling. iv, 32.

J. H. NIEMEYER, Prof. of Drawing.

A.M., Yale, '74.

Drawing. iv, 32.

15. THEORY OF MUSIC.

COLUMBIA.

GEORGE W. WARREN, Prof. of Music.
Public Lectures on Music.

HARVARD.

² Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

JOHN K. PAINE, Prof. of Music.

A.M. (hon.), Harv., '90; Mus.D., Yale, '90.
*Harmony. ii-iii, 31.
*Counterpoint. ii, 31.
*History of Music. i-ii, 31.
*[Instrumentation. i, 31.]
[Canon and Fugue. ii, 31.]
R)Free thematic music. Fugue in two voices. ii, 31.
Seminary in Music.

MICHIGAN.

¹ Graduate Student, 1894-5.

A. A. STANLEY, Prof. of Music.

A.M., Mich., '90.
*Canon and Fugue. ii, 34, O.-Jun.
*Musical Form. ii, 34, O.-Jun.
Free Composition. ii, 34, O.-Jun.
Instrumentation. ii, 34, O.-Jun.

RADCLIFFE.

[See Harvard Courses marked R.]

JOHN K. PAINE.

*Harmony. iii, 31.
*Counterpoint. ii, 31.
*[Instrumentation. i, 31.]
*Hist. of Music. i, 31.

YALE.

Lowell Mason Lib. has large coll. of church music.

H. W. PARKER, Prof. of Theory of Music.

A.M., Yale, '94.—Composer of concert music, songs, oratorio.
*Harmony. ii, 32.
*Counterpoint. ii, 32.
*Strict Composition. ii, 32.
Hist. of Music. i, 32.
*Instrumentation. ii, 32.
Free Composition. ii, 32.

S. S. SANFORD, Prof. of Applied Music.

A.M., Yale, '94.
Practical Music (organ and piano).
—, —?

III. PURE SCIENCE.

16. MATHEMATICS.

BARNARD.

F. N. COLE.

Theory of Complex Numbers. iii, 15, O.-Ja.
 Groups of Linear Transformations. iii, 15, F.-My.
 Theory of Substitutions. iii, 30.

J. B. CHITTENDEN.

*Advanced Diff. and Int. Calculus. iii, 30.

BROWN.

II Graduate Students, 1894-5.

NATHANIEL DAVIS, Prof. of Pure Math.

A. B., Brown, '70, and A.M., '73; LL.D., Colby, '94; Instr. Math., Brown, '74-9; Asst. Prof., '79-'89; Assoc. Prof., '89-'90.

*Applications of the Calculus. iii, 12, Ja.-Mar.

HENRY P. MANNING, Instr. in Math.

A.M., Brown, '86; Fellow, Johns Hopkins, '90-1, and Ph.D., '91.

Differential Equa. iii, 23, S.-Mar.

Theory of Functions. i, 33.

Substitutions and Transformation Groups. iii, 33.
 [Theory of Functions. iii, 33.]

[Differential Equa. (adv.). iii, 33.]
 [Special Courses may be arranged for.]

BENJAMIN F. CLARKE, Prof. of Mechan. Engineering.

A.B., Brown, '63, and A.M., '66; Instr., Math., '63-8; Prof. Math. and Civil Engineering, '68-'93.—Theoret. and Exper. Mechanics.

*Mechanics of Solids. iii, 33.
 *Mechanics of Fluids. iii, 33.
 *Theory of Structure. iii, 10, Ap.-Jun.

BRYN MAWR.

6 Graduate Students, 1894-5.
 1/2*els.*, \$525.

CHARLOTTE A. SCOTT, Prof. of Math.

Graduate in honors, Girton Col., '80; B.Sc., Univ. of London, '82; Lect. on Math., Girton, '80-4; Lect. in connection with Newnham Col., '80-3; D.Sc., Univ. of London, '85.—Intro. Acct. of Certain Mod. Ideas and Methods in Plane Analytical Geom.

Higher Plane Curves. Theories of Transformation and Correspondence. ii, 30.

*Modern Pure Geom. ii, 30.

JAMES HARKNESS, Assoc. Prof. of Math.

Major Schol., Trinity Col., Cambridge, '82; Graduate in honors (8th Wrangler) in Cambridge Math. Tripos, '85; Math. Exhibitor, London Univ. Intermediate Arts Examination, '85; Math Schol., London Univ. P.A. Exam., '87; A.M., Univ. of Cambridge.—Theory of Functions.

Theory of Functions. ii, 30.

*Higher Algebra. ii, 30.

CALIFORNIA.

9 Graduate Students, 1894-5.
 2 *els.*, \$600.

IRVING STRINGHAM, Prof. of Math.

A.B., Harvard; Ph.D., Johns Hopkins.

Theory of Functions of Real Variables. ii, 32.

Elliptic Functions. iii, 32.

California—Continued.

[Absolute Geometry. ii, 32.]
 Partial Differential Equations. iii, 16,
 Au.-D.
 Spherical Harmonics. iii, 16, Ja.-My.
 *Logic of Math. ii, 16, Ja.-My.
 Mathematical Seminary.

GEORGE C. EDWARDS, Assoc. Prof. of Math.

Ph.B., Univ. of Cal.
 *Differential Equations. iii, 32.

MELLEN W. HASKELL, Assoc. Prof. of Math.

A.M., Harvard; Ph.D., Göttingen.
 Theory of Functions of a Complex Variable. iii, 32.
 [Theory of Algebraic Forms. iv, 16,
 Au.-D.]
 [Higher Plane Curves. iv, 16, Ja.-My.]
 [Analytic Geometry of Space. iv, 16.]
 [Theory of Numbers. iv, 16, Au.-D.]
 Theory of Substitutions. ii, 32.

ARCHIE B. PIERCE, Instr. in Math.

A.M., Harvard.
 *Analytical Projective Geom. iii, 32.
 *Quaternions. iii, 32.

LOUIS T. HENGSTLER, Instr. in Math.

Ph.D., Univ., of Cal.
 *History of Math. —, —?

CHICAGO.

59 Graduate Students, 1894-5.

6 *fellowships.*

E. HASTINGS MOORE, Prof. of Math.

A.B., Yale, '83; Ph.D., same, '85; Tutor in Math., same, '87-9; Asst. Prof. of Math., Northwestern, '89-'91, and Assoc. Prof., '91-2.

Linear Differential Equations. iv,
 12, Jul.-S.
 Theory of Functions of a Complex Variable. iv, 12, Jul.-S.
 Functions Seminar. iv, 12, Jul.-S.
 Projective Geometry. iv, 12, O.-D.
 Configurations. iv, 12, Ap.-Jun.
 Elliptic Functions. iv, 12, Jul.-S.
 Elliptic Modular Functions. iv, 12,
 O.-D.
 Groups. iv, 12, Ap.-Jun.

OSKAR BOLZA, Prof. of Math.

Ph.D., Göttingen, '86; Reader in Math.,
 Johns Hopkins, '88-9; Assoc. in Math.,
 Clark, '89-'92.

Intro. to Theory of Quaternions. iv,
 12, O.-D.
 Theory of Substitutions. iv, 12, Ja.-Mar.

HEINRICH MASCHKE, Asst. Prof. of Math.

Ph.D., Göttingen; Prof. of Math., Luisenstädtische Gymnasium, Berlin, '80-'90.
 Theory of the Icosahedron. iv, 12,
 Jul.-S.
 Theory of Surfaces. iv, 12, Jul.-S.
 Higher Plane Curves. iv, 12, O.-D.
 Weierstrass's Theory of Elliptic Functions. iv, 12, Ja.-Mar.
 Analytic Mechanics. iv, 12, Ap.-Jun.
 Algebraic Surfaces. iv, 12, Ap.-Jun.

J. W. A. YOUNG, Instr. in Math.

A.B., Bucknell, '87, and A.M., '90; Fel. in Math., Clark, '89-'92, and Ph.D., '92.
 Theory of Numbers. iv, 12, Jul.-S.;
 also Ja.-Mar.
 El. of Theory of Invariants. iv, 12,
 Jul.-S.
 Theory of Equations. iv, 12, Ja.-Mar.; also Ap.-Jun.

JAMES H. BOYD, Tutor in Math.

A.B., Princeton, '86; Fel. in Math., same,
 '86-8, and Sc.D.
 Differential Equations. iv, 12, Ap.-Jun.

HARRIS HANCOCK, Asst. in Math.

A.B., Johns Hopkins, '88; Ph.D., Berlin, '94.
 Calculus of Variations. iv, 12, Ap.-Jun.

CLARK.

6 Graduate Students, 1894-5.

Two sels. \$600 each, two \$400 each; two schools. \$200 each, two \$100 each.

WILLIAM E. STORY, Prof. of Math.

A.B., Harv., '71; Parker Fellow, '74-5; Ph.D., Leipzig, '75; Tutor in Math., Harv., '75-6; Assoc., Asst. Prof. and Assoc. Prof. Math., Johns Hopkins, '76-'80.—Assoc. Ed. *Amer. Jour. Math.*, '78-'82, Algebraic invariants and covariants, non-Euclidean geom., analyt. geom. (esp. higher plane curves), elliptic functions.

Analytic Geometry of Plane Cubic and Quartic Curves (adv.). ii, 18, O.-F.

Analytic Geometry of Cubic and Quartic Surfaces and Ruled Surfaces (adv.). ii, 17, F.-Jun.

Hyperspace and Non-Euclidean Geom. (adv.). ii, 18, O.-F.
 Seminary. 35, O.-Jun.

Algebraic Invariants and Higher Algebra (intro.). ii, 18, O.-F.

Analytic Geometry of Higher Surfaces and Twisted Curves (intro.). ii, 17, F.-Jun.

HENRY TABER, Asst. Prof. of Math.

Ph.B., Yale, '82; Ph.D., Johns Hopkins, '88; Asst. in Math., Johns Hopkins, '88-9; Docent in Math., Clark, '89-'92.

Analytic Geometry of Conic Sections, Quadric Surfaces and Higher Plane Curves (intro.). ii, 35, O.-Jun.

Ordinary Differential Equations, Calculus of Variations, and Elliptic Functions (intro.). iii, 35, O.-Jun.
 Seminary. Weekly, O.-Jun.

JOSEPH DE PEROTT, Docent in Math.

Algebraic Substitutions and their Applications to the Theory of Equations. ii, 18, O.-F.

Theory of Numbers (adv.). ii, 17, F.-Jun.

ARTHUR G. WEBSTER [see 18].

Partial Differential Equations of Mathematical Physics. 55 lects.

COLUMBIA.

FRANK N. COLE, Prof. of Math.

Ph.D., Harv., '86; Lect. Math., Harv., '87-8; Instr. Math., Mich., '88-9; Act. Asst. Prof., same, '89-'90, and Asst. Prof., '90-5.

Theory of Substitutions. iii, 30.

[Theory of Complex Variable, and Elliptic Functions. iii, 30.]

THOMAS S. FISKE, Adj. Prof. of Math.

[Theory of Invariants. iii, 30.]

Gen. Theory of Functions. iii, 30.

J. BRUCE CHITTENDEN, Tutor in Math.

Shattuck Scholar, Harv., '90-1; Kirkland Fel., '92-3; Ph.D., Königsberg, '93; Parker Fel., Harv., '93-4; Instr. Math., Princeton, '94-5.

Adv. Diff. and Integ. Calculus. iii, 30.

JAMES MACLAY, Instr. in Math.

Theory of Curves and Curved Surfaces. iii, 30.

JOHN E. HILL, Tutor in Math.

Theory of Diff. Equations. iii, 30.

CORNELL.

22 Graduate Students, 1894-5.

Several thousand vols. on pure math., math. physics and astron., besides the most important math. journals. Coll. of math. models. Fel. \$500 and 1 grad. schol. \$300 assigned to Dept. of Math. and Astron. Dept. Sem. meets fortnightly to study some specified math. theory of recent devel.; the subject for 1895-6 is "Lie's Theory of Continuous Groups." Math. Club meets in two sections in alternate weeks. Sect. A is intended for those who have had Calculus, sect. B for all other students of the Dept.

N. B.—Any course not desired at begin. of year by at least five students, properly prepared, may not be given.

Cornell—Continued.

[Finite Differences, Factorials and Difference Equations, with applica. to computation. ii, 32.]
 Elliptic Functs. (el.). ii, 32.
 [Quaternions and Vector Analysis. ii, 32.]
 [Theory of Probabilities and Least Squares, with applica. to philos., sociol., and metric science. ii, 32.]
 [Celestial Mechanics. ii, 32.]
 [Math. theory of fluid motion. iii, 32.]

LUCIEN A. WAIT, Prof. of Math.

A.B., Harv., '70; Asst. Prof. of Math., Cornell, '70-7; Assoc. Prof., '77-'91.
 *Adv. Analyt. Geom. Lines of first and second orders, iii, 32. Surfaces of first and second orders, ii, 32.
 *Diff. Calculus (adv.). iii, 32.
 *Integ. Calculus (adv.). ii, 32.

GEORGE W. JONES, Assoc. Prof. Math.

A.B., Yale, '59, and A.M., '62; Prof. Math., Iowa State Agr. Col., '68-'73; Asst. Prof. Math., Cornell, '77-'93.—Drill book in Alg., logarithmic tables, projective geom., Oliver, Wait and Jones's Math. text-books.
 *Higher Alg. and Trig. ii, 32.
 *Problems in Geom., Alg. and Trig. ii, 32.

JAMES MCMAHON, Asst. Prof. of Math.

Instr. in Math., Cornell, '84-'90.—Assoc. Ed. *Ann. of Math.*, mod. alg., higher plane curves.

Gen. theory of Alg. curves and surfaces. Higher plane curves, iii, 32.
 Curves and surfaces, iii, 32.
 [Ternary and General Quantics, with applica. to curves and surfaces. iii, 32.]
 Theoretical Mechanics. iii, 32.
 Math. Theory of Sound, incl. general theory of vibrating systems. iii, 32, for two years.

ERNST RITTER, Asst. Prof. of Math.

Ph.D., Göttingen, '92; Asst. to Prof. Klein, Göttingen, '93-4; Privat-Dozent, Göttingen, '94-5.—Die eindringlichen automorphen Formen vom Geschlecht Null, etc., theory of functions, geom.

Theory of Functs. General theory, iii, 32. Elliptic, Abelian, and Automorphic, iii, 32.
 Non-Euclidian Geom. ii, 32.
 Math. theory of Elec. and Magnetism. ii, 32.

PAUL SAUREL, Instr. in Math.

B.S., C.C. N. Y., '90; Fellow in Math., Cornell, '91-2.

Fourier's Series and Sph. Harmonics, with applica. to physical probs. ii, 32.

DANIEL A. MURRAY, Instr. in Math.

A.B., Dalhousie, '84; Tutor in Math., same, '85-7; Univ. Scholar, Johns Hopkins, '87-8; Fellow, '89-'90, and Ph.D., '93; Assoc. Prof. of Math., Univ. of City of New York, '90-4.—Associate Equations of Linear Differential Equations.

Differential Equations. ii, 32.

JOHN I. HUTCHINSON, Instr. in Math.

A.B., Bates, '89; Scholar and Fellow, Clark, '90-2; Fellow, Chicago, '92-4; Docent, Chicago, '94.

Theory of Substitution Groups. ii, 32.

JOSEPH ALLEN, Instr. in Math.

A.B., Harvard, '92, and A.M., '94.

Binary Quantics. ii, 32.

VIRGIL SNYDER, Instr. in Math.

B.S., Iowa Agr. Col., '89; Fellow in Math., Cornell, '92-3; Ph.D., Göttingen, '94.

*Mod. Synthetic Geom., incl. Projective Geom. iii, 32.
 Theory of Numbers. Congruences, Quadratic Residues and Quadratic Forms, ii, 32. Gen. Alg. Numbers, ii, 32.

HARVARD.

25 Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

Chauncey Wright Math. prize of \$25.

J. M. PEIRCE, Perkins Prof. of Astron. and Mathematics.

A.B., Harv., '53, and A.M., '56.

*Quaternions, with applica. to Geom. and Mechan. (1st course.) iii, 31.

[Quaternions with applica. to Geom. and Mechan. (2nd course.) iii, 31.]

R)[Algebraic plane curves. Gen. theory, esp. cubics. iii, 31.]

R)Algebra of Logic. i, 31.

R)Linear Associative Algebra (research). i-ii, 31.

R)Gen. Theory of Curves and Surfaces. iii, 31.

W. E. BYERLY, Prof. of Math.

A.B., Harv., '71; Ph.D., same, '73: Asst. Prof. Math., Cornell; Asst. Prof. Math., Harvard. — El. geom., diff. calculus, integ. calculus, spherical harmonics.

*Mod. methods in Geom. Determinants. iii, 31.

*Analyt. Mechanics. iii, 31. (With Mr. _____)

[Mechanics of rigid bodies. ii, 31.]

B. O. PEIRCE [see 18].

[Methods in Math. Physics. iii, 31.]

R)Hydrostat. Hydrokinemat. Force Functions and Velocity — Potential Functions and uses. iii, 31.

PROFS. BYERLY AND B. O. PEIRCE.

R)Trigonometric Series. Intro. to Spherical Harmonics. iii, 31.

W. F. OSGOOD, Asst. Prof. of Math.

A.B., Harv., '86, and A.M., '87; Ph.D., Erlangen, '90. — Symbol. notation, system of two simultaneous ternary quadrat. forms.

*Diff. and Integ. Calculus (adv.). iii, 31.

*Higher Algebra. iii, 31.

R)Theory of Functions (adv.). Riemann's Theory. iii, 31.

R)Klein's Icosahedron (research). [Theory of Substitutions. iii, 31.]

MAXIME BÔCHER, Asst. Prof. of Math.

A.B., Harv., '88; Ph.D., Göttingen, '91; Instr. in Math., Harv., '91-3. — Math. theory of the potential.

*Infinite Series and Products. Continued Fractions. iii, 16, O.-Ja.

*Theory of Equations. iii, 15, F.-My.

R)Theory of Functions (el.). iii, 31.

R)Picard's *Traité d'Analyse*, Vol. I. iii, 16, O.-Ja.

R)Functions defined by Linear Differential Equations. iii, 15, F.-My.

R)Lamé's Products (research).

JOHNS HOPKINS.

78 Graduate Students, 1894-5.

THOMAS CRAIG, Prof. of Pure Math.

Ph.D., Johns Hopkins, '79. — Ed. *Amer. Jour. Math.*

Theory of Functions. iii, 15, O.-Ja.

Abelian Functions. iii, 15, O.-Ja.

Differential Equa. iii, 15, F.-My.

Elliptic Functions. iii, 15, F.-My.

Seminary (adv.). i, 30.

Seminary (el.). i, 30.

A. S. CHESSIN [see 17].

Theoretical Dynamics. iii, 15, F.-My.

Partial Differential Equa. iii, 15, O.-Ja.

L. S. HULBURT.

Ph.D., Johns Hopkins, '94.

Theory of Plane Curves. iv, 15, O.-Ja.

Surfaces and Twisted Curves. ii, 15, F.-My.

LELAND STANFORD, JR.

3 Graduate Students, 1894-5.

ROBERT E. ALLARDICE, Prof. of Math.

A.M., Univ. of Edinburgh, '82; Baxter Scholar in Math., Edinburgh, '82-3; Drummond Scholar in Math., '83-4; Asst. Prof. Math., same, '83-'92.

Theory of Invariants. ii, 32.

Geom. of Three Dimensions. iii, 32.

CHARLES N. LITTLE, Prof. of Math.

A.B., Nebraska, '79; Ph.D., Yale, '85; Instr. in Math. and Civil Eng., Nebraska, '80-4; Assoc. Prof. of Civil Eng., '85-'90; Prof. of Civil Eng., '90-3.

*Differential Equations. iii, 32.

RUFUS L. GREEN, Prof. of Math.

B.S., Indiana, '85, and A.M., '90; Instr. in Math., '85-6; Prof. of Pure Math. '87-'93.

Analysis. ii, 32.

Anal. Geom. of Plane Curves. ii, 32.

MICHIGAN.

12 Graduate Students, 1894-5.

WOOSTER W. BEMAN, Prof. of Math.

A.B., Mich., '70, and A.M., '73.—Algebra, Geometry, Analytic Geometry, Calculus.

*Solid Analytic Geometry. ii, 17, O.-F.

*Quaternions. iii, 17, F.-Jun.

*Teachers' Seminary. ii, 34, O.-Jun.

Solid Analytic Geometry. ii, 17, F.-Jun.

Differential Equations. iii, 17, O.-F.; ii, 17, F.-Jun.

Mathematical Reading. iii, 34, O.-Jun.

FRANK N. COLE, Asst. Prof. of Math.

A.B., Harv., '82; Ph.D., same, '86; Lect. in Math., same, '85-7.—Trans. of Netto's Theory of Substitutions.

*Projective Geometry. iii, 34.

Theory of Complex Numbers. iii, 17, O.-F.; ii, 17, F.-Jun.

ALEXANDER ZIWET, Asst. Prof. of Math.

C.E., Karlsruhe (Ger.), '80.—Co.-ed. *Bull. Am. Math. Soc.*, Theoretical Mechanics.

Advanced Mechanics. ii, 17, O.-F.; iii, 17, F.-Jun.

JOSEPH L. MARKLEY, Instr. in Math.

A.B., Haverford, '85, and A.M., '86; A.M., Harv., '87, and Ph.D., '89.

*Modern Higher Algebra. iii, 17, F.-Jun.

*Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics. iii, 34, O.-Jun.

MINNESOTA.

JOHN F. DOWNEY, Prof. of Math. and Astron.

B.S., Hillsdale, '70; M.S., '73; A.M., '77; C. E., Pa. State Col., '88; Prof. Math., Astron., and Engineering, Pa. State Col., '73-'80.

Co-ordinate Geometry (adv.). ii, 36.

Differential Calculus (adv.). ii, 36.

Integral Calculus (adv.). ii, 36.

Differential Equations. ii, 36.

Quaternions. ii, 36.

*Method of Least Squares. ii, 36.

NEW YORK.

3 Graduate Students, 1894-5.

POMEROY LADUE, Prof. of Math.

B.S., Michigan, '90; Instr. in Math., Mich., '92-3.

Solid Analytic Geom., or Mod. Methods in Analytic Geom. ii, 30.

Differential Equations, or Theory of Surfaces. ii, 30.

Adv. Differential and Integral Calculus, or El. Theory of Functions. ii, 30.

PENNSYLVANIA.

16 Graduate Students, 1894-5.

Rogers Lib. of Math., Astron., Physics and Engineering.

EDWIN S. CRAWLEY, Asst. Prof. of Math. and Sub-Dean of the Col.

Ph.D., Univ. of Pa., '82; Instr. Civ. Eng., '82-5; Instr. Math., '85-9.—El. of Trigonometry.

[Higher Plane Curves. ii, 30.]
Theory of Numbers. ii, 30.
Hist. of Math. i, 30.

GEORGE E. FISHER, Asst. Prof. of Math.

Diff. Equations. ii, 30.
Potential Functions and Spher. Harmonics. ii, 30.
Invariants and Covariants. ii, 30.
Theory of Functions. ii, 30.
Ellip. Functions. ii, 30.

ISAAC J. SCHWATT, Instr. in Math.

Ph.D., Univ. of Pa., '93.—Bessel's Functions, Isogonal Curves.

Mod. Geom. ii, 30.
[Theory of Substitutions. iii, 30.]
Definite Integrals. ii, 30.
Lin. Diff. Equations. ii, 30.

PRINCETON.

7 Graduate Students, 1894-5.

H. B. FINE, Prof. of Math.

Ph.D., Leipzig, '84; Tutor, Asst. Prof. and Prof. of Math., Princeton.—Singularities of curves of double and multiple curvature, differential equations, the number system of Algebra.

Theory of Functions. ii, 32.
*Diff. Equations. ii, 32.
Theory of Numbers and Higher Algebra. ii, 32. [On application.]
Higher Metrical Geom. ii, 32.

H. D. THOMPSON, Prof. of Math.

D.Sc., Princeton; Ph.D., Göttingen; Fel., Johns Hopkins, '86-7.—Zero-value of ellipt. theta-functs., pencils, of conics, hyperelliptic functs., Euclid.

*Higher Plane Curves. ii, 32.
Analyt. Geom. of three dimens. ii, 32.
Elliptic Functions. ii, 32.

W. F. MAGIE [see 18].

*Analyt. Mechanics. ii, 32.

RADCLIFFE.

[See Harvard Courses marked R.]

B. O. PIERCE.

Differential and Integral Calculus (adv.). iii, 31.

MAXIME BÔCHER.

*Theory of Equations. iii, 16, F.—My.
*Infinite series and products. Continued fractions. iii, 16, O.—Ja.

— — —
*Modern methods in Geometry. Determinants. iii, 31.

VANDERBILT.

6 Graduate Students, 1894-5.

W. J. VAUGHN, Prof. of Math.

A.B., Univ. Ala., '57, and A.M., '60; Tutor Math., same, '57-'60; Prof. Math., '63-5; Prof. Physics and Astron., '71-3; LL.D., Univ. Miss., '83.

*Solid Geom. i, 16.
*Theory of Equations. ii, 16.
*Diff. Equations. iii, 32.
*Theory of Numbers. i, 16.
*Theory of Functions. ii, 16.

WESTERN RESERVE.

1 Graduate Student, 1894-5.

C. J. SMITH, Prof. of Math.

A.M., West. Res. Col., '73; Prof. of Math., same, '70-'82.

*Diff. and Integral Calculus. iii, S.—Jun.
*Analytic Geometry. iii, S.—Ja.
*Theory of Equations. iii, F.—Jun.

A. H. PALMIÉ, Assoc. Prof. of Math.

Ph.B., Cornell, '90; Fellow in Math., same, '90-1; Instr. in Math. and German, Col. for Teachers, N. Y., '91-2; Instr. in Math., Col. for Women, W. R. U., '92.

Higher Plane Curves. iii, S.—Ja.
Theory of Functions. iii, S.—Ja.
Quaternions. iii, F.—Jun.
*Differential Equations. iii, S.—Ja.
*Projective Geometry. iii, F.—Jun.

WISCONSIN.

3 Graduate Students, 1894-5.

CHARLES A. VAN VELZER, Prof. of Math.

B.S., Cornell, '76; Instr. in Math., same, '76-7; Fel. in Math., Johns Hopkins, '78-'81; Ph.D., same; Instr. in Math., Wisconsin, '81; Asst. Prof., '83-5.

*Adv. Calculus. ii, 19, S.-F.

*Differential Equations. iii, 38.

*Analyt. Geom. of two Dimensions. iii, 38.

*Analyt. Geom. of three Dimen. ii, 38.

*Modern Algebra. ii, 38.

CHARLES S. SLICHTER, Prof. of Applied Math.

M.S., Northwestern, '85; Instr. in Math., Wisconsin, '86-9; Asst. Prof., '89-'92.

*Partial Diff. Equations of Math. Physics. ii, 38.

*Hydrodynamics. ii, 38.

ERNEST B. SKINNER, Instr. in Math.

A.B., Ohio, '88; Instr. in Math., Amity, '88-'91; Fel. in Math., Clark, '92.

*Higher Trigonometry. ii, 19, F.-Jun.

*[Quaternions. ii, 38.]

EDWARD B. VAN VLECK, Instr. in Math.

A.B., Wesleyan, '84; Fel. in Physics, Johns Hopkins, '86-7; Instr. in Math., Wesleyan, '87-'90; Ph.D., Göttingen, '93.

*Theory of Functions. iii, 38.

YALE.

16 Graduate Students (incl. Astron.), 1894-5.

Math. Club holds fortnightly meetings. Hillhouse Math. Coll., 3000 vols.

H. A. NEWTON, Prof. of Math.

A.B., Yale, '50; LL.D., Mich., '68.— Meteors, comets, temperature, metric system, transcendental curves.

Analytical Statics. —, —?

*Integ. Calculus and Mechanics. iii, 32.

J. E. CLARK, Prof. of Math.

A.B., Mich., '66; A.M., Mich. and Yale, '73; Prof. of Math., Antioch.

Determinants and Diff. Equations. ii, 32.

J. W. GIBBS, Prof. of Math. Physics.

A.B., Yale, '58; Ph.D., same, '63; LL.D., Williams, '93.— Thermodynamics, theory of light, Vector analysis.

Vector Analysis (el.). ii, 12, O.-D. Vector Analysis (adv.). iii, 20, Ja.-Jun.

Multiple Algebra. i, 32.

C. B. RICHARDS, Prof. of Mechan. Eng.

A.M., Yale, '84.— Exper. on resist. of stones to crushing, warming and vent. of houses, revis. of def. in Mech. and Eng. in *Webster's Internat. Dict.*, etc.

Mechanical Engineering (adv.). Applied Mechanics, Thermodynamics, and Machine Design. —, —?

E. L. RICHARDS, Prof. of Math.

A.B., Yale, '60; A.M., same, '67.

*Navigation and Nautical Astron. ii, 32.

A. J. DUBOIS, Prof. of Civ. Eng.

Ph.B., Yale, '69; C. E., '70, and Ph.D., '73; Prof. Eng., Lehigh.— El. of graphic statics, hydraulics, hyd. motor, and steam engine.

Civil Engineering (adv.). Mechanics Applied to Engineering, Construction and Design. —, —?

WM. BEEBE [see 17].

*Surveying. iii, 16, F.-Jun.

A. W. PHILLIPS, Prof. of Math.

Ph.B., Yale, '73, and Ph.D., '77.— Orbita, math. curves and their graphic representation, esp. by machines.

*Analyt. Geom. ii, 32.

S. E. BARNEY, Asst. Prof. of Civ. Eng.

Ph.B., Yale, '79, and C. E., '85.

*Railway Surveying. 3 wks. in Sept.

J. P. PIERPONT, Lect. in Math.

Ph.D., Vienna, '94.—Galoisian theory of Equations, theory of elliptic functions.

Intro. to General Analysis. iii, 32.

Elliptic Functions. ii, 32.

JOSEPH BOWDEN, Tutor in Math.

A.B., Yale, '91.

*Algebra. ii, 32.

H. A. BUMSTEAD, Instr. in Physics.

A.B., Johns Hopkins, '91.

Dynamics of a Rigid Body. i, 32.

17. ASTRONOMY.

BROWN.

1 Graduate Student, 1894-5.

WINSLOW UPTON, Prof. of Astron. and Dir. of Ladd Observ.

A.B., Brown, '75; A.M., Cincinnati, '77; Asst., Harv. Col. Observ., '77-9; Asst. Engin., U. S. Lake Survey, '79-'80; Computer, U. S. Naval Observ., '80-1; Computer and Junior Prof. of Meteorol., U. S. Sig. Office, '81-3.

*Practical Astronomy (adv.). iii, 33.

[Individual courses may be arranged for.]

CHICAGO.

17 Graduate Students, 1894-5.

2 *fellowships.*

GEORGE E. HALE, Assoc. Prof. of Astronomy and Dir. of the Observ.

S.B., Mass. Inst. Technol., '90; Director of Kenwood Astro-Physical Observatory, '90; Prof. of Astro-Physics, Beloit, '91; Lect. in Astro-Physics, Northwestern, '91.

Stellar Spectroscopy. iv, 12, O.-D.
Solar Physics. iv, 12, Ja.-Mar.;
also Ap.-Jun.

CALIFORNIA.

4 Graduate Students, 1894-5.

The Lick Observatory, with its facilities for advanced astronomical work, is a department of the University. A limited number of graduate and special students are admitted there. At Berkeley there is a students' observatory and the following courses will be given. Hearst fel. in Astronomy.

ARMIN O. LEUSCHNER, Asst. Prof. of Astron. and Geodesy.

A.B., Michigan.

*Practical Astronomy (adv.). i, 32.

*Hist. of Astronomy. iii, 16, Au.-D.

*Method of Least Squares. ii, 16, Au.-D.

*[Mechanical Quadratures. iii, 16, Ja.-My.]

*Interpolation. iii, 16, Ja.-My.

*Theoretical Astron. iv, 32.

T. J. J. SEE, Instr. in Astronomy.

A.B., Missouri Univ., '89, and A.M., '92; Ph.D., Berlin, '92.

Gauss's Method of Determining Secular Perturbations. iv, 12, Jul.-S.

Theory of Attraction and Figures of Heavenly Bodies. iv, 12, Jul.-S.
Research in Theory of Tides. iv, 12, O.-D.

KURT LAVES, Asst. in Astronomy.

Ph.D., Berlin, '91; Asst., Royal Observatory, Berlin, '93.

Partial Differential Equations. iv, 12, O.-D.

Dynamics of a System. iv, 12, Ja.-Mar.

Chicago — *Continued.*

Theory of a Rotating Body. iv, 12,
Ap.-Jun.
Special Perturbations. iv, 12, Ap.-
Jun.

COLUMBIA.

Astronom. Obs. contains a 46 in. transit; combined transit and zenith instrument; an equatorially mounted refractor of 5 in. apert., with spectroscope; a diffraction spectroscope with grating; an equal. refracting telescope of 13 in. apert. with correcting lens for photographic work, etc.

JOHN K. REES, Prof. of Astronomy and Director of Obs.

A.M.; E.M., Columbia, '75; Ph.D.; Asst. in Math., Columbia, '73-6; Prof. of Astron., Washington Univ., '76-81; Prof. Pract. Astron. and Geodesy, Columbia, '81-'92. — Ed. *School of Mines Quarterly*, '82-8, solar eclipses, comets and meteors, Rutherford reductions.

*Spher. and Pract. Astron. (with Mr. Monell). ii, 30, and obs. work, ii, 30.
Spher. and Pract. Astron. (adv.) with Prof. Jacoby). ii, 60, and obs. work, iv, 60.
*Geodesey. ii, 45.

HAROLD JACOBY, Adj. Prof. of Astron.

Asst. Astr. U. S. Eclipse Exped. to W. Africa, '89-'90. — Ed. *Bull. N. Y. Math. Soc.*, Astronom. photog., star clusters, stellar parallax.

Theoretical Astron. i, 60, and computations.

Theory and Methods of Reduction of Photographic Star Plates. i, 60, with practical work.

CORNELL.

2 Graduate Students, 1894-5.

¹ sel. \$500 and 1 grad. school. \$300 assigned to Dept. Math. and Astron.

ESTEVAN A. FUERTES, Director of Col. of Civil Eng. and Prof. of Civil Eng.

Director N. Y. State Weather Bureau.—Municipal and govt. reports.

*Spherical Astron. Observations. ii, 12.

D. A. MURRAY [see 16].

*Descriptive Astron. ii, 32.
*Physical and Math. Astron. ii, 32.

HARVARD.

Astronom. Obs., founded for scientific research, equipped with instruments of the first class, a library of over 14,000 works, and has funds for maintenance, increase, and publication. In the Henry Draper memorial dept. an extensive study of spectra and other phys. props. of stars is carried on. Boyden fund sustains observations at great elevation. Photographic study of stars especially provided for. Facilities freely offered to astronomers; also sometimes to special students in astron., who should apply to E. C. Pickering, Director.

JOHNS HOPKINS.

16 Graduate Students, 1894-5.

The Department is conducted on plans outlined by Prof. Simon Newcomb, who acts as general adviser. Equipment consists of an equatorial telescope of 94 inches aperture, a meridian circle of 3 in. aperture with circles 2 ft. in diam. reading to seconds, a small meridian transit instrument, and several others.

C. L. POOR, Assoc. in Astron.

Ph.D., Johns Hopkins, '92.

Theory and use of Astron. instruments. iii, 15, O.-Ja.

Adv. Theoretical Astron. iii, 15, F.-My.

Theoret. and Pract. Astron. ii, 30. Astron. Seminary.

Pract. work with instruments. Daily.

A. S. CHESSIN, Lect. on Math. and Astron.

Celestial Mechanics. iii, 30.

LELAND STANFORD, JR.

Graduate courses lead to graduate work and research at the Lick Observatory, at Mt. Hamilton. Residence there will count toward advanced degree.

WILLIAM J. HUSSEY, Prof. of Astron.

B.S. and C.E., Mich., '89; Assistant in Nautical Almanac Office, Washington, '89; Instr. in Math., Michigan, '89-'91; Instr. in Astronomy, and Act. Dir. of Observatory, '91-2.—Theories of Planetary Motions.

- *Theoret. Astron. iii, 14 or 18.
- *Double Stars. ii, 18.
- *Eclipses and Occultations. ii, 18.
- *Method of Least Squares. ii, 14.
- Special advanced work.

MICHIGAN.

6 Graduate Students, 1894-5.

"Detroit" Observ. provided with *Fitz* 13 in. refract. telescope, meridian circle, sid. clock. Special observ. for instruction.

ASAPH HALL, JR., Prof. of Astron. and Dir. of Observ.

Ph.B., Yale, '88, and Ph.D., '89; Asst. Naval Obs., '82-5; Asst. Astron., Yale, '85-9; Asst. Astron., Naval Obs., '89-'92.—Observations of satellites and discussion of observations.

Computation of Orbits, Special Perturbations, and Correction of Orbits. v, 34, O.-Jun.

Math. Theory of Planetary Motions. ii, 17, O.-F.

Use of Instruments. 17, O.-F.

SIDNEY D. TOWNLEY, Instr. in Astron.

B.S., Wisconsin, '90, and M.S., '92.—Obs. of Telescopic Variables of Long Period, Variable Stars of Long Period, Photographic Observations of Algol.

*Least Squares and Empir. Curves. ii, 17, O.-F.

Spherical Astron. iii, 34.

MINNESOTA.

FRANCIS P. LEAVENWORTH, Asst. Prof. of Astron.

A.B., Haverford, '80; A.M., Indiana, '87; Asst. Prof. Astron., Indiana; Asst. Astron., McCormick Obs.; Prof. Astron. and Dir. Obs., Haverford.

Practical Astron. —, —?

Theoretical Astron. —, —?

PENNSYLVANIA.

CHARLES L. DOOLITTLE, Prof. of Math. and Astron.

C.E., Univ. of Mich., '74; Prof. of Math. and Astron., Lehigh, '95.—Pract. Astron.

Practical Astron. iii, 30.

Theoret. Astron. iii, 30.

PRINCETON.

2 Graduate Students, 1894-5.

Halstead Obs. appropriated to scientific work, esp. in astronom.-physics. Equatorial 23 in. aperture made by Clark. Highest power spectroscope fitted for visual and photographic work. Obs. of instrum. devoted to use of students contains 9½ in. ap. Clark equal., besides full complement of other instruments.

C. A. YOUNG, Prof. of Astron.

Ph.D., LL.D.; Prof. of Math., Nat. Philos. and Astron., Western Reserve, '57-'66; Prof. Nat. Philos. and Astron., Dartmouth, '66-'77—The sun, general astron., papers on astronomical subjects.

[Theoret. Astron. i, 32.]

TAYLOR REED, Asst. Prof. of Astron.

A.M., Princeton, '87.

Pract. Astron. ii, 32.

RADCLIFFE.

Instruction will be given in such original research as can be made with apparatus accessible to amateurs. Officers of the Observatory desire to encourage this kind of work, and to that end will advise students in their subsequent investigations and secure the publication of any valuable results.

Under direction of PROF. PICKERING.

Descriptive Astronomy. Prof. Searle. Practical Research. Mr. Edmands.

VANDERBILT.

1 Graduate Student, 1894-5.

C. L. THORNBURG, Adj. Prof. of Astron.

B.S., Vanderbilt, '81; C.E., '83; Ph.D., '84.

*Descriptive Astron. iv, 16.

*Practical Astron. iii, 32.

*Observatory practice. vi, 32.

WISCONSIN.

Students of sufficient technical attainments are admitted to participation in the regular work of the Washburn Observatory, and allowed to use the instruments in independent research. Meritorious original work of such students may be included in the publications of the observatory, or in the Bulletins of the Univ.

Wisconsin—Continued.

GEORGE C. COMSTOCK, Prof. of Astron. and Director of Washburn Observatory.

Ph.B., Mich., '77; Asst. in Ann Arbor Observ., '77-8; Asst. in Washburn Observ., '79-'85; Prof. Math. and Astron., '85-7.

*Observatory Work and Methods. x, through the year.

*Theoretical Astron. v, 38.

YALE.

WILLIAM BEEBE, Asst. Prof. of Math. and Astron.

A.B., Yale, '73.—Comets' orbits, graphic algebra, mechanics.

*Descriptive Astron. iii, 16, O.-F.

*Practical Astron. (obs. work). i, 32.

H. A. NEWTON [see 16].

*Shooting Stars and Meteors. i, 32.

S. E. BARNEY [see 16].

Geodesy and Pract. Astron. —, —?

18. PHYSICS.

[See also 16 and 17.]

BARNARD.

1 Graduate Student, 1894-5.

ERNEST R. VAN NARDROFF.

E.M., Columbia.

Wave theory of light. iii, 30.

BROWN.

4 Graduate Students, 1894-5.

[Optics. iii, 11, Ja.-Mar.]

*Laboratory. iii-vi, 24, S.-Mar.

Applia. of Higher Math. to Physics. iii, 33.

ALBERT DEF. PALMER, Instr. in Physics.

B.P., Brown, '91.

*Dynamics. iii, 12, S.-D.

*Thermodynamics. iii, 12, Ja.-Mar.

*Hydrodynamics. iii, 10, Ap.-Jun.

BRYN MAWR.

4 Graduate Students, 1894-5.

ARTHUR S. MACKENZIE, Assoc. Prof. of Physics.

A.B., Dalhousie, '85; Tutor in Math., '87-9; Fel., Johns Hopkins, '90-1; Ph.D., same, '94.

Theory of Electricity and Magnetism.

iii, 30.

*Theory of Light. ii, 30.

EDGAR BUCKINGHAM, Assoc. in Physics.

A.B., Harv., '88; Asst. in Physics, '88-9; Asst. in Physics, Univ. of Strasburg, '89-'90; Asst. in Physics, Harv., '91-2; Tyndal Schol., Harv., '92-3; Ph.D., Leipzig, '93.

Thermodynamics. ii, 30.

*Theory of Sound. iii, F.-Jun.

DRS. MACKENZIE AND BUCKINGHAM.

Seminary. Monthly.

Journal Meeting. iii, monthly.

CALIFORNIA.

11 Graduate Students, 1894-5.

FREDERICK SLATE, Prof. of Physics.

B.S., Brooklyn Polytechnic.

Readings and discussions. Theory of Electrolysis. Stresses and Strains in Elastic Solids. Hist. Devel. Physical Theories. —, —? Dynamics of Rotation. —, —?

FREDERICK G. HESSE, Prof. of Mechanical Engineering.

Graduate of Gewerbe Institut, Treves.

*Hydraulics and Hydraulic Machinery. iii, 16, Ja.-My.

*Thermodynamics. iii, 16, Au.-D.

*Dynamics of Heat Engines. iii, 16, Ja.-My.

*Experimental Engineering. Lab. vi, 32.

Special reading and research.

HAROLD WHITING, Assoc. Prof. of Physics.

Ph.D., Harvard.

Special research in Color and Light. Lab.

CLARENCE L. CORY, Asst. Prof. of Mechanical Engineering.

M.M.E., Cornell.

*Electrical Engineering. iv, 32.

*Electrical Lab. and Designing. vi, 32.

WM. J. RAYMOND, Instr. in Physics.

Special research on Light.

*Absolute Electrical Measurements. —, —?

*Harmonic Motion. —, —?

CHICAGO.

29 Graduate Students, 1894-5.

1 fellowship.

ALBERT A. MICHELSON, Head Prof. of Physics.

Instr. in Phys. and Chem., U. S. Naval Acad., '75-9; Ph.D. (hon.), West. Reserve, '86; Prof. Phys., Clark, '89-'92.

Research Course. ii, 36, O.-Jun.

Special Graduate Course. Lects. and lab., iv-viii, 36, O.-Jun.

*Spectrum Analysis (lects.) iv, 6, O.-N.

*Velocity of Light (lects.). iv, 6, Ja.-F.

*Application of Interference Methods (lects.). iv, 6, Ap.-My.

Graduate Course (with Prof. Stratton). x, 36, O.-Jun.

*General Physics (adv., with Prof. Stratton). v, 24, Ja.-Jun.

SAMUEL W. STRATTON, Assoc. Prof. of Physics.

S.B., Univ. of Ill., '85; Instr. in Math. and Phys., same, '85-'8; Asst. Prof. of Phys., '88-'90; Prof. of Phys., '90-2; in charge Dept. Electrical Engineering, '91-2.

*Laboratory methods. iii, 12, O.-D.

*Laboratory Practice (adv.). x, 12, Ap.-Jun.

*Electrical Measurements. vi, 12, Ap.-Jun.

FRANK L. O. WADSWORTH, Asst. Prof. of Physics.

E.M., Univ. of Ohio, '88; Asst. in Physics, same, '89; Fel. in Physics, Clark, '89-'90; Asst. in Physics, '90-2; Special Asst., Smithsonian, '92; Senior Asst., Astro-Physical Observatory, Washington, '93-4.

*Laboratory Practice (adv.). x, 36, Jul.-Mar.

Special Graduate Laboratory. x, 12, Jul.-S.

*Theory and Design of Scientific Instruments. iv, 6, Jul.-Au.; ix, 12, Ap.-Jun.

*General Physics (adv.). v, 12, O.-D.

*Theory of Reduction of Observations. iii, 16, O.-N.

Theory of Heat. v, 12, Ja.-Mar.

*Curve Tracing and Graphical Solutions. vi, 6, Ja.-F.

*Special Research Methods. v, 24, Ap.-S.

CLARK.

6 Graduate Students, 1894-5.

Two fels. \$600 each, two \$400 each; two schols., \$200 each, two \$100 each. Lab. open daily from 8 to 6. Research by each student under personal direction of the professor.

ARTHUR G. WEBSTER, Asst. Prof. of Physics.

A.B., Harv., '85; Instr. in Math., '85-6; Parker Fellow, '86-9; Ph.D., Berlin, '90.

Clark—Continued.

- [Dynamics.—General Methods, Canonical Equations, Systems of Particles, Rigid Bodies. 50 lects.]
- [Newtonian and Logarithmic Potential Functions. Attraction of Ellipsoids. 20 lects.]
- [Elasticity. 30 lects.]
- [Hydrodynamics. Dynamical Basis of Sound and Light. 15 lects.]
- [Electricity and Magnetism. 60 lects.]
- Oscillatory Systems. 15 lects.
- Theory of Light, Physical and Geometrical. Elastic and Electromagnetic Wave Theories. 50 lects.
- Thermodynam. Thermo- and Electro-Chemistry. 30 lects.
- Kinetic Theory of Gases. 10 lects.
- Heat Conduction. 10 lects.
- Colloquium. Discussions and Reports. Weekly.
- Partial Differential Equations of Mathematical Physics. 55 lects.

COLUMBIA.

Twenty lab. courses are offered by the department.

OGDEN, N. ROOD. Prof. of Physics.

- *Sound. ii lects., ii-vi lab., O.-Ja.
- *Magnetism and Electricity. ii lects., ii-vi lab., F.-My.
- *Light. iii lects., ii-iv lab., O.-Ja.
- *Heat. iii lects., ii-iv lab., F.-My.

WILLIAM HALLOCK, Adj. Prof. of Physics.

A B., Ph.D., Würzburg, '81.

- *Electrical Measurements. ii lects., viii lab., 30.
- *Undulatory Theory of Light. ii, F.-My.

HOLBROOK CUSHMAN, Instr. in Physics.

- *Physical Manipulation. i, O.-Ja.
- *Precision of Measurements. iii, F.-My.

HERSCHEL C. PARKER, Tutor in Physics.

- *Theoretical Comp. of Electrical Methods. ii, O.-Ja.

ROBERT S. WOODWARD, Prof. of Mechanics.

- *Thermodynamics (el.). ii, O.-Ja.
- Theoret. Mechanics (adv.). ii, 30.
- Theory of the Potential Function. ii, 30.
- Geodynamics. ii, 30.
- Math. Theory of Elasticity. ii, 30.

MICHAEL I. PUPIN, Adj. Prof. of Mechanics.

- Thermodynamics. iii, O.-Ja.
- Theory of Dynamo and Motor. iii, 30.
- Theory of Alternators and Transformers. iii, O.-Ja.
- Theory of Variable Currents. iii, F.-My.
- Maxwell's Theory of Electricity and Magnetism. ii, 30.
- Theory of Bessel's Functions and Spherical Harmonics. i, 30.
- Electromagnetic Theory of Light. iii, O.-Ja.
- Thermodynamics (adv.). ii, 30.
- Theoret. Electr. Engineering (adv.). iii, F.-My.

J. C. PFISTER, Tutor in Mechanics.

- Theoretical Mechanics. ii, 30.

CORNELL.

35 Graduate Students, 1894-5.

Franklin Hall is devoted exclusively to Physics. For magnetic and other measurements by the magnetic needle, a special building free from iron has been erected. There is also a special laboratory of electrical engineering in the Franklin Hall Annex. The dept. issues the "Physical Review." 1 sel. \$500, 1 grad. school. \$300.

EDWARD L. NICHOLS, Prof. of Physics.

B.S., Cornell, '75; Ph.D., Göttingen, '79; Fellow, Johns Hopkins, '79-80; Prof. of Physics and Chemistry, Central Univ., '81-3; Prof. Physics and Astronomy, Univ. of Kansas, '83-7.—"Über das von glühendem Platin ausgestrahlte Licht," Manual of Lab. Practice, Experimental Physics, Ed. *Physica Review*.

*Spectroscopy (adv.). iii, 32.
Readings, discussions and reports.
Sem., ii, 32.
Research in General Physics.

GEORGE S. MOLER, Asst. Prof. of Physics.

B.M.E., Cornell, '75; Instr. in Physics, same, '75-'80.—Exper. physics, photog.

*Photog. (adv.), with esp. ref. to research. ii, 32.
Heat and Applied Electricity. Lab.

ERNEST C. MERRITT, Asst. Prof. of Physics.

M.E., Cornell '86; Fellow in Physics, '86-7, '88-9; Instr., '89-'92.—Lab. Manual, etc.

*Lab. practice in General Physics (adv.). —, —?

*Thermometry and Calorimetry. iii, 32.

Recent advances in the theory of Electricity and Magnetism. —, —?

FREDERICK BEDELL, Asst. Prof. of Physics.

A.B., Yale, '90; Fellow in Electrical Eng., Cornell, '91-2, and Ph.D., '92; Instr., '92-3.—Alternating Currents, etc.

*Magnetism of Iron. i, 12, O.-D.

*Theory of Electricity and Magnetism. iii, 32.

*Theory of Alternate Currents. ii, 20, Ja.-Jun.

*Absolute meas. in Elec. and Magn. iii lab., 32.

FREDERICK J. ROGERS, Instr. in Physics.

B.S., Kansas State Agr. Col.; M.S., Cornell, '91.

*Thermodynamics. ii, 32; also i, 32.

CHARLES P. MATTHEWS, Instr. in Math.

M.E. (in Elec. Eng.), Cornell, '92.

*Theory of Dynamo and Motor. ii, 9, Ap.-Jun.

*Application of Photometry to Electric Lighting. i, 11, Ja.-Mar.

JOHN S. SHEARER. Instr. in Physics.
B.S., Cornell, '93; Asst. in Physics, '93-4.
*Theory of Light (adv.). iii, 32.

HARVARD.

12 Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

Jefferson Physical Lab. devoted to instruct. and research. Isolated tower upon an independent foundation for investigations requiring great stability or height. Non-magnetic, constant temp. and photogr. rooms. Tyndall sel. of \$500.

JOHN TROWBRIDGE, Prof. of Physics and Dir. Jeff. Phys. Laboratory.

S.B., Harv., '65; Sc.D., same, '73.

*Light. Lect. i, lab. vi-viii, 31.

*Electrodynamics, Magnetism, Electromagnetism (with Mr. Sabine and Mr. LeClear). Lects. ii, lab. vi-viii, 31.

Electrodynamics, with spec. ref. to periodic currents of electricity. Lab. ix, 31.

Spectrum Anal. Research. xii, 31.

B. O. PEIRCE, Hollis Prof. of Math. and Nat. Philos.

A.B., Harv., '76; Ph.D., Leipzig, '79.

*Electrostat., Electrokinemat., Electromagnetism. Lects. i, lab. vi-viii, 31.

R) Research in Mathemat. Physics.

R) Math. theory of Electrostatics and Electrokinematics. —, —?

E. H. HALL, Asst. Prof. of Physics.

Ph.D., Johns Hopkins, '81.—Effect of mag. force on the equipotential lines of an electric current ("Hall effect"), thermal conductiv. nickel and iron, cylinder condensat. in steam engines.

*Thermodynamics (el.). ii-iii, 16, O.-Ja.

*Thermodynamic Potential. ii-iii, 15, F.-Jun.

Harvard—Continued.

R) Math. theory of Electrodynamics and Electromagnetism. —, —?
Research in Electromagnetism and Heat Conduction.

WALLACE C. SABINE, Instr. in Physics.

A.B., Univ. Ohio, '86; A.M., Harv., '88.

*Light and Heat. Lects. ii, lab. viii, 31.

JOHNS HOPKINS.

8o Graduate Students, 1894-5.

Physical Lab., with constant temp., non-magnetic, and engine rooms, and those for optical work. Special facilities for work in light, electricity, and magnetism. Weekly meetings to discuss journals.

H. A. ROWLAND, Prof. of Physics and Dir. Phys. Lab.

C.E., Rensselaer Polytech. Inst., '70; Asst. Prof. same, '72-5; Ph.D. (hon.), Johns Hopkins, '80.

Thermodynamics, Heat Conduction and Phys. Optics (lects.). iv, 30.
[Electricity and Magnetism (lects.). iv, 30.]

J. S. AMES, Assoc. Prof. of Physics.

Ph.D., Johns Hopkins, '90.

Physical Seminary. i, 30.

Applica. of Dynamics to Physical Chem. ii, 15, O.-J.

Selected Topics in Spectroscopy. ii, 15, F.-My.

Original work in Lab. (with Prof. Rowland).

LOUIS DUNCAN, Assoc. Prof. of Electricity.

Ph.D., Johns Hopkins, '85.

Applied Electricity (el.). iii, 30.

Applied Electricity. ii, 30.

Seminary (with Prof. Rowland). ii, 30.

H. S. HERING, Assoc. in Elec. Engineering.

M.E., Univ. of Penn., '86.

Electr. Measurements. ii, 30.

H. G. GEER, Instr. in Mechan. Engineering.

M.E., Cornell, '93.

Mechanics of Engineering. ii, 30.
Steam and Hydraulic Engineering.
iii, 30.

Mechan. Drawing. vi, 30.

LELAND STANFORD, JR.

2 Graduate Students, 1894-5.

FERNANDO SANFORD, Prof. of Physics.

B.S., Carthage, '79, and M.S., '82; Prof. Physical Science, Mt. Morris, '79-'82; Prof. Physical Science, Lake Forest, '90-1.—Conductivity of Copper Wire in various Dielectrics, etc.

*Optics and Chem. Physics. ii, 32.

*General Physics. iii, 32.

Orig. Problems in Lab.

Special advanced research.

MERRITT E. TAYLOR, Asst. Prof. of Physics.

B.S., Northwestern, '83, and M.S., '84; Asst. in Chemistry, '83-4; Instr. in Math., '84-6.

*Electr. and Magnet. Meas. iii, 32.

MICHIGAN.

10 Graduate Students, 1894-5.

HENRY S. CARHART, Prof. of Physics and Dir. of Phys. Lab.

A.B., Wesleyan, '69, and A.M., '72; LL.D., same, '93.—Primary Batteries, Elements of Physics, University Physics, Electrical Measurements.

*Dynamo Electric Machinery. iii, 17, F.-Jun.

*The Alternate Current Transformer: Fleming. ii, 17, O.-F.

The Theory of Heat: Preston. ii, 17, O.-F.

PROF. CARHART, Asst. PROF. PATTERSON, AND DR. GUTHÉ.

*Electrical Measurements. ii, lab. iii, 17, O.-F.

GEO. W. PATTERSON, JR., Asst. Prof. of Physics.

A.B., Yale, '84; B.S., Mass. Inst. Tech., '87; A.M., Yale, '91.—Trans. Palaz's Photometry, Electrical Measurements.

*Mathematical Electricity: Mascart and Joubert. iii, 17, O.-F.; ii, 17, F.-Jun.

Advanced work in Photometry. i-ii, 17, F.-Jun.

JOHN O. REED, Asst. Prof. of Physics.

Ph.B., Mich., '85, and Ph.M., '93.

*Theory of Light: Preston. ii, lab. ii, F.-Jun.

Advanced Lab. Work in Light. ii, 34, O.-Jun.

KARL E. GUTHÉ, Instr. in Physics.

Ph.D., Marburg, '92.

*Advanced Lab. Work. in Electr. and Magnetism. ii, 17, F.-Jun.

Theory of Potential and its Applications. ii, 17, F.-Jun.

MINNESOTA.

10 Graduate Student, 1894-5.

FREDERICK S. JONES, Prof. of Physics.

A.B., Yale, '84.

Adv. Physics. Special problems with experimental investigations. —, —? Individual research guided.

HENRY T. EDDY, Prof. of Engineering and Mechanics.

A.B., Yale, '67; Ph.B., Sheffield S. S., '68; C.E., Cornell, '70; Ph.D., same, '72; Asst. Prof. Math. and Civil Eng., Cornell, '69-'73; Prof. Math. and Civil Engineering, Cincinnati, '74-'90; Pres., Rose Poly. Inst., '91-4.

Applied Mechanics, incl. Hydraulics. iv, S.-Jun.

Theory of Water Motors. v, N.-Mar.

Thermodynamics. v, S.-Jun.

Theory of Dynamos and Motors. v, Mar.-Jun.

Differential Equations and Theory of Alternating Currents. ii, S.-Jun.

NEW YORK.

D. W. HERING, Prof. of Physics.

C.E., Yale, '88; Feil. in Engineering, Johns Hopkins, '76-8; Prof. Math., West Md. Col., '80-4; Prof. Physics, West. Univ. of Pa., '84-5. — Electrical units, church acoustics, modern views of physics.

Magnetism and Electricity (minor course). ii, 30.

Mechanics (minor course). ii, 30.

Magnetism and Electricity (major course). ii, 30.

Mechanics (major course). ii, 30.

Thermodynamics. ii, 14, F.-My.

PENNSYLVANIA.

1 Graduate Student, 1894-5.

1 Fellowship \$600, open to Grad. of Univ. of Pa.

GEORGE F. BARKER, Prof. of Physics.

M.D., Alb. Med. Col., '63; Prof. Physiolog. Chem., Yale, '66-'73. — Ed. *Jour. Franklin Inst.*, '73-5, Assoc. ed. *Am. Jour. Sci.* since '77, textbooks in Chem. and Physics.

Theory and Practice of Spectroscopy. ii, 15, O.-F.

Const. and Prop. of Matter. i, 15, O.-F.

Wave Motion and Radiation. ii, 15, F.-My.

Electr. and Magnet. ii, 15, F.-My.

Lab. Phys. Investigations.

Lab. in Absolute Phys. Measurements (with Asst. Prof. Goodspeed).

ARTHUR W. GOODSPED, Asst. Prof. of Physics.

A.B., Harv., '84; Asst. in Physics, Univ. of Pa., '84-5; Instr., '85-9; Ph.D., '90.

Pennsylvania — Continued.

Theoret. Dynamics. ii, 15, O.-F.
 Thermodynamics. i, 15, F.-My.
 Theory of Potential. i, 15, F.-My.

HORACE C. RICHARDS, Instructor in Physics.

A.B., Univ. of Pa., '88; Ph.D., same, '91.
 Theory of Sound. ii, 15, O.-F.

PRINCETON.

4 Graduate Students, 1894-5.

Physical Lab. is supplied with apparatus for adv. study and research. Open throughout the yr. to Grad. Students. A skilled mechanic at the service of the dept. for construct. of special apparatus. An isolated building provided for electrical and magnetic meas.

C. F. BRACKETT, Prof. of Physics.
 Math. Theory of Electricity and Gen.
 Electr. viii, 32.
 Theory of Electricity. iv, 16.
 [Also nine more technical courses].

W. F. MAGIE, Prof. of Physics.

Ph.D., Berlin, '85.— Electrical discharge, atmospheric electr., surface tension of liquids, theory of temp.

*Theory of Heat. ii, 16, F.-My.
 *[Theory of Light. ii, 16, F.-My.
 *Theory of Electricity (el.). ii, 16, O.-Ja.
 Lab. Practice. 32.
 Math. Physics. 32.

F. A. WATERMAN, Instr. in Physics.

A.B., Princeton, '88; Prof. of Physics, Purdue, '91-3.
 Mechanics and Heat (el.). Lab. viii, O.-Ja.
 Electricity and Magn. (el.). Lab. viii, F.-My.
 Heat and Light (adv.). Lab. xii, O.-Ja.
 Electricity and Magn. (adv.). Lab. xii, F.-My.
 Special investigations. Lab., 32.

RADCLIFFE.

[See Harvard Courses marked R.]

WALLACE C. SABINE.

*Light and Heat. ii and lab. vi-viii, 31.

VANDERBILT.

4 Graduate Students, 1894-5.

JOHN DANIEL, Prof. of Physics.

A.B., Univ. Ala., '84, and A.M., '86; Asst. Prof. Physics, same, '84-6; Univ. Scholar in Physics, Johns Hopkins, '87; Adj. Prof. Phys., Vanderbilt, '90.— Papers on electrolysis, and electrolytic polarization.

*Electricity and Magnetism. iv, 16.
 *Electricity and Magnetism. iii, 32.
 *Exper. Electricity. vi, 32.

WESTERN RESERVE.

3 Graduate Students, 1894-5.

F. P. WHITMAN, Prof. of Physics and Astronomy.

A.M., Brown, '77; Prof. of Physics, Rensselaer Pol. Inst., '80-5.

*Electrical Measurements. i, lab. vi, S.-Jun.
 *Physical Optics. ii, lab. iii, F.-Jun.

WISCONSIN.

JOHN E. DAVIES, Prof. of Electricity and Magnetism and Math. Physics.

A.M., Lawrence, '62; M.D., Chicago Med. Col., '68; L.L.D.; Prof. Nat. Hist. and Chem., Wis., '68-'75; Prof. of Astron. and Physics, '75-9.

*Math. Theory of Sound. iii, 38.
 *Math. Theory of Electricity. iv, 38.
 *Math. Physics. v, 38.

YALE.

8 Graduate Students, 1894-5.

Sloane Phys. Lab., spec. devoted to invest. and research in Physics. Rooms for optical and photographic work, esp. in spectrum. Engine room, dynamos and apparatus for electric and magnetic work.

A. W. WRIGHT, Prof. of Exp. Physics.

A.B., Yale, '59, and Ph.D., '61; Prof. Nat. Phil. and Chem., Williams.—Polarization and spectrum of zodiacal light, comets, sun's corona, gases in meteorites, electric deposition of metals, ozone.

*Physics (el.). Lab. ii, 32.

Physics (adv. and research).

C. S. HASTINGS, Prof. of Physics.

Ph.B., Yale, '70, and Ph.D., '73; Assoc. Prof. Physics, Johns Hopkins.—Refraction of light,

objectives, esp. telescopic, composition of the sun.

Detailed treatment of some dept. of Physics, with lab.

J. W. GIBBS [see 16].

Electricity and Magnetism. ii, 32.

[Electro-Magnetic Theory of Light.

ii, 32.]

19. CHEMISTRY.

[For Mineralogy, see under 21.]

BROWN.

2 Graduate Students, 1894-5.

JOHN H. APPLETON, Prof. of Chem.

A.B., Brown, and A.M., '69; Instr. Chem., '63-8. — Chem. Philos., Beginners' Hdbk. Chem., Metals of Chem., Carbon Compounds.

*Quantitative Anal. vi-xii, 33.

*Organic Chem. vi-xii, 33.

Assaying. vi-xii, 21, Ja.-Jun.

Medical Chem. vi-xii, 21, Ja.-Jun.

Agricul. Chem. vi-xii, 21, Ja.-Jun.

Scouring and Dyeing of Wool. vi-xii, 10, Ap.-Jun.

BRYN MAWR.

4 Graduate Students, 1894-5.

1 fel., \$525.

EDWARD H. KEISER, Prof. of Chem.

S.B., Swarthmore, '80, Asst. in Chem., '80-1, and S.M., '81; Fel., John Hopkins, '82-4, and Ph.D., '84; Asst. in Chem., '84-5. — Various papers in *Am. Chem. Jour.*

Theoret. and Physical Chem. ii, 30.

ELMER P. KOHLER, Assoc. in Physics.

A.B., Muhlenberg, '86, and A.M., '89; A.M., Johns Hopkins, '90, Fel., '91-2, and Ph.D., '92. — Papers in *Am. Chem. Jour.*

Organ. Chem. (adv.). i, 30.

DRS. KEISER AND KOHLER.

Seminary. i, 30.

Journal Meeting. i, 30.

CALIFORNIA.

10 Graduate Students, 1894-5.

WILLARD B. RISING, Prof. of Chem.

A.M.; M.E., Hamilton; Ph.D., Heidelberg.

Theoretical Chem., with Lab. Practice. —, —?

Thermal Chem., with Lab. Practice. —, —?

Inorganic Chem. Review of Classical Investigations. —, —?

Selected topics in Inorganic Chem. Preparation of Compounds.

Chemical Technology, with Lab. Practice. —, —?

Methods of Quantitative Analysis. —, —?

Special Research.

EDMOND O'NEILL, Asst. Prof. of Organic and Physiological Chem.

Ph.D., Univ. of Cal.

Gives with Prof. Rising the preceding courses.

Cornell—Continued.

WILLIAM R. ORNDORFF, Asst. Prof. of Organic Chem.

Ph.D., Johns Hopkins, '87; Instr. Chem., Cornell, '87-'90. — *Diazo Compounds, polymers of certain aldehydes, acetone, hydroperoxide and the organic peroxides*, Lab. Manual of Org. Chem.

*Organic Chem. (el.). Lects. iii, lab. iii, 32.

*Special Chapters in Organic Chem. ii, 32.

*Organic Chem. (adv.). Lab., 32.

*Coal Tar Dyestuffs. i, 23, O.-Mar.

*Stereochemistry. i, 9, Ap.-Jun.

*Sem. in Organic Chem. ii, 32.

Research in Organic Chem. Lab. xxx-xl, 32.

JOSEPH E. TREVOR, Asst. Prof. of Gen. Chem. and Physical Chem.

Ph.D., Leipzig, '92. — Physical chem.

*Theoret. Phys. Chem. iii, 32.

*Sem. in Phys. Chem. (with Prof. Bancroft). i, 32.

WILDER D. BANCROFT, Asst. Prof. of Phys. Chem.

A.B., Harv., '88; Ph.D., Leipzig, '92; Asst. in Phys. Chem., Harv., '93-4; Instr., '94-5. — Electro-chem., law of mass action.

*Exper. Phys. Chem. iii, 32.

*Phys. Chem. Lab., 32.

*Electrochemistry (lects.). ii, 32.

EMILE M. CHAMOT, Instr. in Analyt. Chem.

B.S., Cornell, '91. — Action of alcohol on acrolein.

*French Chem. Readings. ii, 9, Ap.-Jun.

*Toxicology (lects.). ii, 11, Ja.-Mar.

FRED D. SMITH, Instr. in Analyt. Chem.

B.S., Cornell, '92.

*Assaying. Lab. ii, 9, Ap.-Jun.

*[Adv. Qual. Anal. Lects. and lab., 32.]

HARVARD.

14 Graduate Students, 1894-5.

C. L. JACKSON, Prof. of Chem.

A.B., Harv., '67, and A.M., '70.

Organic Chem. (research).

H. B. HILL, Prof. of Chem.

A.B., Harv., '69, and A.M., '72.

Organic Chem. (research).

*The Carbon Compounds. Lab. iii, 31.

T. W. RICHARDS, Asst. Prof. of Chem.

S.B., Haverford, '85; A.B., Harv., '86; Ph.D., same, '88.

*Quantitat. Anal. (adv.). Lab. iii, 16, O.-Ja.

*Gas Analysis. Lab. iii, 15, F.-My.

*Hist. of Chem. and Chem. Philos. ii, 16, O.-Ja.

Inorganic Chem., incl. Determination of Atomic Weights (research).

Physical Chem. Lects. ii, lab. ii, 31.

Physical Chem. (research).

JOHNS HOPKINS.

70 Graduate Students, 1894-5.

Weekly Journal Meetings. 10 or 12 Lectures by adv. students on spec. topics. Lab. daily, 9 to 5, under Profs. Remsen and Morse.

IRA REMSEN, Prof. of Chem. and Dir. of Chem. Lab.

A.B., Col. City of N. Y., '65; M.D., Col. Physicians and Surgeons, N. Y., '67; Ph.D., Göttingen, '70; Prof. Chem., Williams, '72-6; LL.D., Columbia, '93. — Ed. *Amer. Chem. Jour.*

Sel. Topics in Chem. of Compounds of Carbon. ii, 12, O.-D.

Compounds of Carbon. v, 18, F.-My. Special research.

H. N. MORSE, Prof. of Analyt. Chem.

A.B., Amherst, '73; Ph.D., Göttingen, '75; Instr. in Chem., Amherst, '75-6.

Analyt. Methods. i, 30.

W. W. RANDALL, Assoc. in Chem.
Ph.D., Johns Hopkins, '90.
Princ. of Physical Chem. ii, 12, O.-D.

LELAND STANFORD, JR.

5 Graduate Students, 1894-5.

JOHN M. STILLMAN, Prof. of Chem.
Ph.B., Univ. of Cal., '74; Ph.D., same, '85;
Asst. in Chemistry, '73-5; Instr. in Organic
and Gen. Chem., California, '76-'82.

*Industrial Chem. ii, 32.
*Theories of Chem. ii, 14.
Adv. Lab. Work (with Profs. Richardson and Lenox).

GEORGE M. RICHARDSON, Prof. of
Organic Chem.
A.C., Lehigh, '86; Ph.D., Johns Hopkins,
'90; Instr. in Quant. Chem. Anal., Lehigh,
'88-9; Fel. in Chem., Johns Hopkins, '89-'90;
Instr. in Organic Chem., Lehigh, '90-1.
*Hist. of Chem. i, 18.
*Organic Synthesis. i, 18.

LIONEL R. LENOX, Assoc. Prof. of
Anal. Chem.
Ph.B., Columbia, '88; Instr. in Chem., Le-
high, '88-'91.
*Urine Analysis. ii, 14.
*Toxicology. ii, 18.

STEWART W. YOUNG, Asst. Prof. of
Chem.
B.S., Cornell, '90; Asst. in Chem., '90-1;
Instr. in Chem., Swarthmore, '91-3.
*Adv. Organic Chem. i, 32.

MICHIGAN.

13 Graduate Students, 1894-5.
1 fellowship, \$500.

Journal Club, in which all instructors
take part. ii, 17, F.-Jun.

A. B. PRESCOTT, Dir. of Chem. Lab.,
Prof. of Organic Chem., and Dean
of School of Pharmacy.

Ph.D.; M.D., Mich., '64.—Manual of Descriptive
and Analyt. Chem. of Certain Carbon
Compounds; Outlines of Proximate Organic
Anal., Qual. Chem. Anal., Estimation of
Alkaloids by Potassium Mercuric Iodide, etc.

Organic Synthesis and Ultimate
Analysis. 34, O.-Jun.

*Analytical Organic Chem. 34, O.-Jun.
Organic Chem. 34, O.-Jun.

PAUL C. FREER, Prof. of General
Chem. and Dir. of Lab. of Gen. Chem.

M.D., Mich., '83; Ph.D., Munich, '87; Asst.
in Chem., Tufts, '87; Instr., '88; Lect. in
Chem., Mich., '89.—Organic Chem., esp.
acetic ether, and other ethers.

*Theoretical Chem. of Recent Years.
iii, 17, O.-F.
Chem. Lit. Journal Club. i, 17,
F.-Jun.
Lab. Research. 34, O.-Jun.

OTIS C. JOHNSON, Prof. of Applied
Chem.

A.B., Oberlin, '68; Ph.C., Mich., '71; A.M.,
Oberlin, '77.

*Qual. Analyt. Chem. ii, 17, F.-Jun.
Inorganic Reactions and Qual. Meth-
ods. 34, O.-Jun.

VICTOR C. VAUGHAN, Prof. of Hy-
giene and Physiological Chem., and
Dean of Dept. of Medicine and Sur-
gery.

Ph.B., Michigan, '75, Ph.D., '76, and M.D.,
'78.—Chemical study of the products of bac-
teria.

Original Research on Causation of
Disease. 34, O.-Jun.

FREDERICK G. NOVY, Jun. Prof. of
Hygiene and Physiol. Chem.

Sc.D., Michigan, '90, and M.D., '91.—
Ptomaines and leucomaines, bacterial pro-
ducts, hog cholera.

Physiolog. Chem. (adv.). 34, O.-Jun.

Michigan — *Continued.*

E. D. CAMPBELL, Jun. Prof. of Metallurgy and Metallurgical Chem.

B.S., Michigan, '86.—Sulphur in blast furnace slag, phosphorus in iron and steel, and in presence of arsenic, higher oxides of nickel, etc.

*Quant. Analyt. Chem. 34, O.—Jun.
Metallurgical Chem. and Quant. Methods. 34, O.—Jun.

GEORGE O. HIGLEY, Instr. in Chem.

B.S., Michigan, '91, and M.S., '92.

*Rarer Chemical Elements. Lects. ii, lab. i, 17, F.—Jun.

*Lab. Research Inorganic Chem. 34, O.—Jun.

Lab. Work in Inorganic Preparations.

D. M. LICHTY, Instr. in Chem.

B.S., Westchester State Normal School, '87; M.S., Michigan, '91.

*Lab. Work. ii, 17, F.—Jun.

Lab. Research. 34, O.—Jun.

MINNESOTA.

12 Graduate Students, 1894-5.

GEORGE B. FRANKFORTER, Prof. of Chemistry.

B.S., Univ. of Nebraska, '86; A.M., '88; Ph.D., Berlin, '93; Prof. Analyt. Chem., Univ. of Neb., '93.—On Narceine.

Research in Electrochemistry. iv, 24.

Chemistry of Compounds of Carbon. v, 38.

Plant Alkaloids. iv, 24.

Special Analyt. Chem. iv, 38.

NEW YORK.

ROBERT W. HALL, Prof. of Chemistry.

A.M., Princeton, '76; E.M., Columbia, '76.

Adv. Analytical Chemistry. Lab. ii, 30.

Inorganic Synthesis. Lab. ii, 30.

Inorganic Research. Lab. ii, 30.

Organic Chemistry. Lects. and lab. ii, 30.

MORRIS LOEB, Prof. of Chemistry.

Ph.D., Berlin, '87; Docent, Clark, '89-'91.

Physical Chem. Lects. and lab., ii, 30.
Sem. in Hist. and Theory of Chem. ii, 30.

PENNSYLVANIA.

14 Graduate Students, 1894-5.

EDGAR F. SMITH, Prof. of Chemistry.

Ph.D., Göttingen, '76; Prof. of Chem., Wittenburg, '83-8. — Invest. in Inorg., Organ., and Analyt. Chem., Translat. Richter's Chem.

Gen. Inorg. Chem. ii, 30.

Analyt. Chem. i, 15.

Mineral Anal. i, 15.

Inorg. Preparations. i, 15.

HERMANN FLECK, Instr. in Chem.

Ph.D., Tübingen, '93.

Gas Anal. i, 15.

Organ. Chem. i, 30.

JULIUS OHLY, Instr. in Chem.

Ph.D., Göttingen, '93.

Hist. and Theories of Chem. i, 30.

ROBERT H. BRADBURY, Instr. in Chem.

Ph.D., Univ. of Pa., '94.

Physical Chem. i, 15.

PRINCETON.

5 Graduate Students, 1894-5.

H. B. CORNWALL, Prof. of Applied Chem. and Mineralogy.

Ph.D., Columbia, '87.

Adv. Quant. Chem. Anal., Inorg. and Örg. i, and lab., 32.

*Inorg. Qual. Anal. ii, and lab. v, 16, F.—My.

*Inorg. Quant. Anal. i, and lab., 16, F.—My.

[Also more technical courses.]

L. W. McCAY, Prof. of Chemistry.
D.Sc., Princeton, '83. — Papers on Analyt. Chem.
*Theoret. and Organ. Chem. ii, 16, O.-Ja.

F. NEHER, Instr. in Chemistry.
A.M., Princeton.
*Volumetric Analysis. i, and lab., 16, O.-Ja.

RADCLIFFE.

Inorganic Chem., incl. Determination of Atomic Weights (research).

VANDERBILT.

1 Graduate Student, 1894-5.

W.M. L. DUDLEY, Prof. of Chem.

Dean Med. Dept., Univ. Cin, '76-9; Prof. Chem., Miami Med. Col., '80-6; State Chemist, '90-1. — Research on Iridium and Platinum, organic analysis, inorganic and physical chem.

*Chem. Technology. iii, 32.
*Quant. Analysis. iii, 32.
*Metallurgy. ii, 32.
*Lab. work. iii, 32.
Research course.

J. T. MCGILL, Adj. Prof. of Chem.
B.S., Vanderbilt, '79; Ph.D., '81; Ph.G., '82. — Intro. to qualitative chem. analysis.
*Lab. work in Organ. Chem. iii, 32.
*Spec. Chapters in Organ. Chem. (lects.). ii, 32.
*Adv. Organ. Chem. iii, 32.
Research work in Organ. Chem.

WESTERN RESERVE.

2 Graduate Students, 1894-5.

EDWARD W. MORLEY, Prof. of Chem.
[Absent on leave in 1895-6.]
*[Organic Chem. ii, lab. i, S.-Jun.]
[Quant. Analysis. Lab. iii, S.-Jun.]

HIPPOLYTE W. GRUENER, Instr. in Chem.
Ph.D., Yale.
*Organic Chem. ii, lab. i, S.-Jun.
Quant. Analysis. Lab. iii, S.-Jun.

WISCONSIN.

2 Graduate Students, 1894-5.

WILLIAM W. DANIELLS, Prof. of Chem.
M.S., Mich. Agric. Col., '64; Prof. Agriculture, Wisconsin, '68-'80; State Analyst since '80.
*Adv. Inorganic Chem. (with Dr. Saunders). —, S.-Jun.

HOMER HILLYER, Asst. Prof. of Organic Chem.

A.B., Wisconsin, '82; Fel., Johns Hopkins, '82-5; Ph.D.
*Adv. Organic Chem. —, S.-Jun.

YALE.

13 Graduate Students (incl. Geology), 1894-5.

F. A. GOOCH, Prof. of Chem.

A.B., Harv., '72; Asst., same, '72-5; Ph.D., same, '77; Expert Spec. Agt., U. S. 10th census, '79-'81; Chem., Northern Transcont. Survey, '81-4; U. S. Geol. Survey, '84-6. — Analyt. apparatus, methods and results, separation and determination of elements.

*El. Org. Chem. Lab. ii, 32.
*El. Quant. Anal. Lab. iii, 32.
*Chem. Philosophy. ii, 32.
Adv. Quant. Anal. Daily.
Organic Synthesis. Daily.
Orig. Work and Research. Daily.

P. E. BROWNING, Instr. in Chem.

A.B., Yale, '89, and Ph.D., '92.

*Qual. Chem. Anal. Lab. iii, 32.

F. A. GOOCH AND P. E. BROWNING.

*Exper. Inorg. Chem. Lab. iii, 32.

Yale — Continued.

H. L. WELLS, Prof. of Analyt. Chem.
 Ph.B., Yale, '77; Chemist, Conn. Agri. Exp. Station.— Minerals, polyhalides, double-salts, analyt. methods.
 *Qual. Anal. (el.) ii, and lab., O.-D.
 *Quant. Anal. —, O.-D.
 Quant. Anal. (adv.). —, O.-Jun.
 *Metallurgy and Assaying (lects. and lab.). —, Easter-Jun.
 *Tech. Gas. Analysis. —, Easter-Jun.
 Invest. in Inorgan. Chem. O.-Jun.

A. J. WAKEMAN, Instr. in Analyt. Chem.

Ph.B., Yale, '87; Ph.D., Leipzig, '94.— Theory of isohydric solutions, basic lead nitrates.
 *Adv. Descrip. and Theoret. Chem. iii, 32.
 *Phys. Methods used in connect. with Chem. Lab.

W. T. H. HOWE, Instr. in Chem.

Ph.B., Yale, '93.
 *Organ. Chem., Paraffin Series. ii, 32.
 *Organ. Chem., Aromatic Series. ii, 12, O.-D.

20. BIOLOGY.

[Including Zoölogy, Botany, Physiology, and Palaeontology (in part). See also 21.]

BARNARD.

1 Graduate Student, 1894-5.

EMILY L. GREGORY, Prof. of Botany.
 Ph.D., Zürich, '86; Assoc. in Bot., Bryn Mawr, '86-8; Hon. Fel., Univ. of Penn., '88-9.
 Advanced General Botany. vi, 15, O.-Ja.
 Plant Anatomy. vi, 15, F.-My.

G. N. CALKINS.

General Biology. ii, 30.

BROWN.

7 Graduate Students, 1894-5.

ALPHEUS S. PACKARD, Prof. of Zoöl. and Geol.
 M.D., Ph.D., Bowdoin; Libr. Boston Soc. Nat. Hist., '65; Lecturer, Mass. Agr. Col., '69-'77; Maine Agr. Col., '71; Bowdoin, '73-6.— Scientific works, chiefly Zoöl. and Geol.
 *Zoölogy. iii, 11, Ja.-Mar.

HERMON C. BUMPUS, Prof. of Comp. Anat.

B.P., Brown, '84; Instr. Biol., same, '84-5; Prof. Biol., Olivet, '85-8; Fel. in Morph., Clark, '88-'89; Assoc. Prof. Biol., Brown, '89-'90; Ph.D., Clark, '90; Asst. Dir. Marine Biol. Lab., Wood's Holl, '94-5.

*Invert. Anatomy. iii, 10, Ap.-Jun.
 *Comp. Anat. Vertebr. iii, 23, S.-Mar.

GEORGE W. FIELD, Assoc. Prof. of Cellular Biol.
 A.M., Brown, '90; Ph.D., Johns Hopkins, '92; Asst. in Biol., same, '91-2.
 Cellular Biol. iii, 10, Ap.-Jun.
 Bacteriology. i, 33.
 General Biol. iii, 23, S.-Mar.

RALPH W. TOWER, Instr. in Chem. Physiol.

A.B., Brown, '92, and A.M., '93; Instr. Biol., '92-3; Fellow, '94-5.
 *Chem. Physiology. iii, 10, S.-D.

FREDERICK P. GORHAM, Instr. in Anat.

A.B., Brown, '93, and A.M., '94; Instr. in Biol., '93-5.
 *Vertebrate Anat. iii, 10, Ap.-Jun.

W. J. V. OSTERHOUT, Instr. in Bot.

A.B., Brown, '93, and A.M., '94.
 *Histol. and Embryol. of Phanerogams. iii, 33.
 *Structure and Devel. of Cryptogams. iii, 24, S.-Mar.

BRYN MAWR.

6 Graduate Students, 1894-5.

1 fel., \$525.

THOMAS H. MORGAN, Assoc. Prof. of Biol.

B.S., State Col. Kentucky, '86, and M.S., '88; Graduate Schol., Johns Hopkins, '88-9; Fel., '89-90, Ph.D., '90, and Bruce Fel., '90-1.

Structure of Protoplasm and the Cell. —, —?

*Embryology. i, 30.

*General Zoölogy. i, 30.

JOSEPH W. WARREN, Assoc. Prof. of Physiology.

A.B., Harv., '71; M.D., Univ. of Bonn, '80; Asst. and Instr. in Physiol., Harv. Med. Sch., '88-91; Lect. in Med. Dept., Univ. City of N. Y., '85-6; Lect. in Physiol., Mich., '89.

Physiology (prob. Physiol. of special senses). i, 30.

*Struct. and funct. of central nervous system. i, 30.

Ross G. HARRISON, Lect. in Morphology.

A.B., Johns Hopkins, '89; Univ. Schol., '91, Fel., '93-4; Ph.D., '94, and Bruce Fel., '94-5.

Biology (adv.). i, 30.

DRS. MORGAN and WARREN.

Seminary.

Journal Meeting. Fort.

CALIFORNIA.

14 Graduate Students, 1894-5.

EDWARD L. GREENE, Prof. of Botany.

Ph.B., Albion.

Critical work upon the Phanerogamic Flora of some special district. —, —?

Hist. of Botany. —, —?

*Phanerogamic Natural Orders. —, —?

*Medical Botany. —, —?

*Systematic Botany (adv.). —, —?

*Economic Botany. —, —?

EDWARD J. WICKSON, Assoc. Prof. of Agricult., Horticult., and Entomol.

A.M., Hamilton.

Horticul. Experiments in cross pollination. Economic value and adaptation to local climate of cultivated plants. —, —?

WILLIAM E. RITTER, Asst. Prof. of Biology.

Ph.D., Harvard.

*Seaside Lab. work.

*Zoölogical Sem. Current Lit. i, 32.

MARSHALL A. HOWE, Instr. in Cryptogamic Botany.

Ph.B., Vermont.

Cryptogamous Plants. —, —?

Histol. and Embryol. studies in Cryptogamia. —, —?

*Vegetable Histology. —, —?

CHICAGO.

Zoölogy, 36; Anatomy and Histology, 19; Physiology, 15; Neurology, 11; Palaeontology, 6; Botany, 18; — Graduate Students, 1895-6.

7 fellowships in Zoölogy; 1 in Physiology.

CHARLES O. WHITMAN, Head. Prof. of Zoölogy.

A.B., Bowdoin, '68, and A.M., '71; Ph.D., Leipzig, '88; Fel., Johns Hopkins, '79; Prof. Zool., Imp. Univ. of Japan, '80-1; Asst. in Zool., Harv., '83-5; Prof. Zool., Clark, '89-92. — Ed. *Jour. of Morphology*, and Microscopic Dept. of American Naturalist.

*Embryology. Higher Invert. i, and lab. xii, 24. Seminar. Hist. i, 24, O.-Mar.

*Embryology. Vert. viii, 12, Ap.-Jun.

*Marine Zoölogy at Wood's Holl. viii, 12, Jul.-S.

WM. M. WHEELER, Asst. Prof. in Embryology.

Curator, Milwaukee Pub. Mus., '87-'90; Asst. in Morphology, Clark, '90-2, and Ph.D., '92.

*Comp. Anat. of Vertebrates. viii, 24, O.-Mar.

Chicago—Continued.

- *Entomology. iv-viii, 36 or 18, O.-Jun.
- *Embryology (adv.). viii, 6, Ap.-Jun.

EDWIN O. JORDAN, Asst. Prof. in Zool.

S.B., Mass. Inst. Tech., '88; Chief Asst. Biol., Mass. State Bd. of Health, '88-'90; Lect. on Biol., Mass. Inst. Tech., '89-'90; Fel., Clark, '90-2, and Ph.D., '92.

- *Special Bacteriology. iv-viii, 12 or 6, O.-D.; also Ja.-Mar., and Jul.-S.

- *Gen. Bacteriology. viii, 6, Jul.-S.

SHO WATASE, Asst. Prof. in Cellular Biology.

B.S., College of Sapporo, Japan, '84; Scholar, Johns Hopkins, '87-8; Fel., same, '88-'90, and Ph.D., '90; Asst. and Lect., Clark, '90-2.

- *Cell Anat. and Physiology. iv, 36, O.-Jun.

- *Comp. Anat. of Visual Organs. iv-viii, 36 or 18, O.-Jun.

NORMAN WYLD, Docent in Zoölogy.

- *Heredity and Evolution. iv, 36, O.-Jun.

- *Seminar. iv, 36, O.-Jun.

JACQUES LOEB, Assoc. Prof. of Physiol.

M.D., Strasburg, '84; Asst. in Physiol., Würzburg, '86-8; Asst. in Physiol., Strasburg, '88-'90; Assoc. in Biology, Bryn Mawr, '91-2.

- *Research work at Wood's Holl. viii, 12, Jul.-S.

- *Original Investigation. viii, 36, O.-Jun.

- *Advanced Physiol. iv-viii, 36 or 18, O.-Jun.

- *Comp. Physiol. of Cent. Nerv. Syst. iv, 12, Ja.-Mar. Sense Organs, Ap.-Jun.

DAVID J. LINGLE, Instr. in Physiol.

B.S., Chicago, '85; Asst. in Science, Beloit, '86-7; Asst. Prof. Biol., Tulane, '89-'90; Fel., Johns Hopkins, '91-2, and Ph.D., '92.

- *Physiol. of Circulation. ii, 12, O.-Ja.

- *Gen. Lab. Work. iv, 24, Ja.-Jun.

- *Physiol. of Digestion. iv, 12, Ja.-Mar.

HENRY A. DONALDSON, Prof. of Neurology.

A.B., Yale, '79; Fel., Johns Hopkins, '81-3; Inst. in Biol., same, '83-4; Ph.D., '85; Assoc. in Psychol., '87-8; Asst. Prof. Neurology, Clark, '89-'92.

- *Research. viii, 48.

- *Nervous System. Architecture, iv, 12, O.-D. Brain Growth, Ja.-Mar. Special Sense Organs, Ja.-Ap. Localization of Functions, Ap.-Jun.

- *Dev. of Cent. Nerv. Syst. iv, 12, Jul.-S.

- *Seminar. ii, 48.

ADOLPH MEYER, Docent in Neurology.

M.D., Zürich, '92; Hon. Fel., Chicago, '92-3; Pathologist to Ill. East. Hospital for Insane, Kankakee, '93.

- *Intro. to Comp. Anat. Nerv. Syst. ii, 12, Ap.-Jun.

GEORGE BAUR, Assoc. Prof. of Palaeontology.

Ph.D., Munich, '82; Asst., Munich, '82-4; Asst., Yale, '84-'90; Docent, Clark, '90-2.

- *Comp. Osteology Vertebrates. ii, 24, Ja.-Mar.; also Ap.-Jun.

- *Seminar in Phylogeny. ii, 36, O.-Jun.

- *Research in Osteology. viii, 42, O.-Au.

- *Human Osteology. iv, 6, Jul.-Au.; also F.-Mar., and Ap.-My.

- *Syst. Phylogeny of Vertebrates. iv, 6, Jul.-Au.

- *Field Work. iv, 6, Au.-S.

JOHN M. COULTER, Professorial Lect. in Botany.

A.B., Hanover, '70, and A.M., '73; Prof. Nat. Sci., same, '74-9; Ph.D., Hanover and Indiana, '82; Prof. Biol., Wabash, '79-'81; Pres. and Prof. Bot., Indiana, '91-3; Pres. Lake Forest, '93.—Ed. Bot. *Gazette*.

- *Special Morphology. i, 18, O.-F.

- *Special Physiol. of Plants. i, 18, F.-Jun.

- *Advanced Lab. Work. iv-viii, 36, O.-Jun.

CLARK.

2 Graduate Students, 1894-5.

Two fels. \$600 each, two \$400 each; two schols. \$200 each, two \$100 each. Lab. open daily from 8 to 6. Special attention to individual work.

CLIFTON F. HODGE, Asst. Prof. of Physiology and Neurology.

A.B., Ripon Col., '82; Fel., Johns Hopkins, '88-9, and Ph.D., '89; Fel. in Physiology and Asst. in Neurology, Clark, '89-'91; Instr. in Biology, Univ. of Wis., '91-2.

General Biology (adv.). Lab. i, 18, O.-Ja.

Comp. study of Nervous Systems and Sense Organs. i, 17, Ja.-Jun.

Muscle and Nerve Physiology. Lab., O.-Ja.

Anatomy and Physiology of the Skin and Sense Organs. i, 8, F., and Mar.

Embryology and Growth of the Human Brain and Sense Organs. i, 6, My. and Jun.

Practical Histology of the Nervous System. Lab., O.-Jun.

Seminary. ii, O.-Jun.

Journal Club. ii, O.-Jun.

COLUMBIA.

Herbarium contains about 500,000 spec. Botan. lib., 3,700 vols., and about 5,000 pamphlets. Physiol. Lab. in building of Col. Physicians and Surgeons.

HENRY F. OSBORN, Da Costa Prof. of Biology.

Comp. Zoölogy (with Prof. Wilson). Lects. and lab., vi, 30.

Morphology of the Mammals. Lects. and lab., vi, 30.

[Vertebrate Organogeny (with Dr. Dean). Lects. and lab., v, F.-My.

EDMUND B. WILSON, Prof. of Invertebrate Zoölogy.

Asst. in Zoology, Yale, '78-9; Asst. in Biol., Johns Hopkins, '81-2, and Ph.D., '82; Lect. in Biol., Williams, '83-4; Lect., Mass. Inst. Technol., '84-5; Prof. Biol., '85-'91.

Comp. Embryology. Lects. and lab., vi, O.-Ja.

Cellular Biology. Lects. and lab., vi, F.-My.

Special and Exper. Embryology. i, F.-My.

BASHFORD DEAN, Instr. in Biology.

Ph.D., Columbia, '90.

Morphology of Fishes. Lects. and lab., vi, 30.

GARY N. CALKINS, Tutor in Biology.

Special Morphology. The Protozoa. i, F.-My.

Biology (adv.). xii, 30.

NATHANIEL L. BRITTON, Prof. of Bot.

E.M., Ph.D., Columbia, '81; Instr. in Botany, '87-9; Adj. Prof. Botany, '89-'91.—Ed. *Bull. Torrey Botanical Club, Trans. N. Y. Acad. of Sci.*

Cryptogamic Botany (with Dr. Curtis). Lects. i, lab. iv, 30.

Cryptog. Bot. (adv., with Dr. Curtis). Lects. i, lab. iv, 30.

Natural Families of Flowering Plants. Conf. i, lab. iv, 30.

Research.

CARLETON C. CURTIS, Tutor in Bot.

A.M., Columbia, '92; Ph.D., Syracuse, '93.

Plant Anatomy (adv.). Lab. iv, 30.

JOHN G. CURTIS, Prof. of Physiology.

Comp. Human and Vert. Physiol. (with Prof. Lee). iv-vi, 30.

Laboratory courses (with Prof. Lee).

Research.

FREDERIC S. LEE, Adj. Prof. and Demonstrator of Physiology.

Ph.D., Johns Hopkins, '85.

*General Physiology. i, 30.

Lab. course in Gen. Physiol. v, 30.

Columbia — Continued.

GEORGE S. HUNTINGTON, Prof. of Anatomy.

Lab. courses in Animal Morphol. Carpus, Respiratory Apparatus, Nervous System, Myology, Auditory Apparatus, Urino-Genital System, Cranial Topography.

T. MITCHELL PRUDDEN, Prof. of Pathology.

Bacteriology (adv.). (With Dr. Cheesman). —, —?

T. M. CHEESMAN, Instr. in Bacteriology.

Bacteria — preparation, analyses, pathogenic properties, etc. —, —?

CORNELL.

19 Graduate Students, 1894-5.

Herbar. contains 15,000 spec. *Insectary of Agr. Exp. Station* affords facilities for investigating life his. of insects. Special feature of Zool. Museum is extensive series of dissected human and animal brains. 1 fel. \$500 and 1 grad. school. \$300 assigned to Depts. of Physiol., Vertebrate Zoölogy and Entom., Gen. Invert. Zool. Also 1 fel. \$500 and 1 grad. school. \$300 assigned to Depts. of Botany and Geology.

BURT G. WILDER, Prof. of Physiol., Vert. Zoölogy and Neurology.

B.S., Harv.; M.D., same, '66; Asst. in Comp. Anat., same, '66-7; Prof. of Zoology, Cornell, '68.— Gross. anat. of brain, human and comp. anat. of cat, ganoid fishes, spiders, anat. nomenclature.

*Neurology. iii, 9, Ap.-Jun.

*Comp. Anat. Lab. vi, 32.

*Vertebrate Zoöl. ii, lab. ii, 11, Ja.-Mar.

Research in Neurology. Daily.

ALBERT N. PRENTISS, Prof. of Botany, Horticulture and Arboriculture.

Prof. of Bot. and Horticult., Mich. Agr. Col., '64-8.— Mode of distrib. of plants, destr. of insects by fungi.

*Exotics. —, —?

Research in Phanerog. and Plant Physiol.

*Systemat. Bot. Princ. of Taxonomy (lects.). iii, 32.

*Dendrology (lects.). iii, 9, Ap.-Jun. Seminary (with Profs. Atkinson and Rowlee).

JOHN H. COMSTOCK, Prof. of Entomol. and Gen. Invert. Zoöl.

B.S., Cornell, '74; Instr. in Entomol. same, '73-7; Asst. Prof., '77-'82; U. S. Entomol., '79-'81; also Prof. of Entomol., Leland Stanford.— Manual of Insect Life, econ. entomol., systematic entomol.

*Insect anat., life hist. and classifica. Lab. xxv, 21, O.-D.; Ap.-Jun.

*Entomol. (lects.). iii, 9, Ap.-Jun.

*Entomol. 3 lects., field and lab., 10, Jun.-S.

*Invert. Zoölogy (with Mr. MacGillivray). Lab., 21, O.-D.; Ap.-Jun.

SIMON H. GAGE, Assoc. Prof. of Anat., Histol. and Embryol.

B.S., Cornell, '77; Instr. in Microscopy and Pract. Physiol., same, '78-'81.— Microscopy, anat., vertebrate, histol., embryology.

*Anatom. methods and gross. anat. iii, 12, O.-D.

*Microscope and micros. methods. iii, 11, Ja.-Mar.

*Methods and el. Embryol. iv, 9, Ap.-Jun.

*Vertebrate Zoöl. Lab., daily, 32.

*Vert. Histol. Lab., daily, 32.

GEORGE F. ATKINSON, Assoc. Prof. of Botany.

Ph.B., Cornell, '85; Prof. of Entomol., Univ. of N. Cor., '85-8; Prof. of Botany and Zoölogy, Univ. of So. Cor., '88-9; Alabama Polytechnic Inst., '89-'92; Asst. Prof. of Cryptogamic Bot., Cornell, '92-3.— Biology of Ferns, leguminous tubercles, crypt. bot.

*Fungi. Lects. and lab., iv, 9, Ap.-Jun.

Research in Cryptogams.

*Lower Cryptogams. Methods and culture of bacteria and fungi. iii, 12, O.-D. Algae. iii, 12, O.-D.

Higher Cryptogams. Lects., lab. and field, iii, 11, Ja.-Mar.

WILLARD W. ROWLEE, Asst. Prof. of Botany.

B.L., Cornell, '88; D.Sc., same, '93; Asst. in Bot., Agr. Exper. Station; Instr. in Bot.
 *Herbar. work on Phanerogams (lab. and excursions). iii, 9, Ap.-Jun.
 *Histol. and Embryology of plants (lects. and lab.). iii, 12, O.-D.
 *Systematic Bot. Phanerogams. Lab. ii, 32.

PIERRE A. FISH, Instr. in Physiol., Vert. Zool., and Neurology.

B.S., Cornell, '90; D.Sc., same, '94.
 *Histol. of Nervous System. Lects. and lab., iii, 9, Ap.-Jun.
 *Neurology. Lab. ii, 9, Ap.-Jun.
 *Comp. Anat. Lab. ii, 9, Ap.-Jun.

GRANT S. HOPKINS, Instr. in Anatomy, Embryology and Microscopy.

B.S., Cornell, '89; D.Sc., same, '93.
 *Adv. Anatomy. Lects. and lab.
 *Embryology and Microscopy. Lab.

LIBERTY H. BAILEY, Prof. of Gen. and Exper. Horticulture.

B.S., and M.S., Mich. Agr. Col.—Annals of Horticulture, Horticult. Manuals, Ed. Gray's Field, Forest and Garden Botany.

*Organic Evolution. iii, 12, O.-D.

HARVARD.

25 Graduate Students, 1894-5.

Museum Compar. Zoölogy, founded by Louis Agassiz, 1859 (Alexander Agassiz, curator), has collections, under the charge of museum assts., and available for scientific study. Lib. of over 23,000 vols., and half as many pamphlets on Zoölogy and Palæontology. Humboldt Fund maintains one or more students at Museum, Newport Marine Lab., or Woods Hole U. S. F. C. Stat. Investigations are published in the Bull. Mus. Comp. Zool. Botanic garden of 7 acres offers facilities for investig. Herbarium of over 200,000 species, incl. types of Synoptical Flora of N. A. Bot. lib. at Herbar. of over 9,000 vols. Bot. Mus., incl. Blaschka glass models. Extensive cryptogamic herb. Zoölogical and Botanical Clubs meet fortnightly. Virginia Bartlett Gibbs Schol. of \$250, open to students in Zool., also a table at Naples Zool. Stat.

GEORGE L. GOODALE, Fisher Prof. of Natural History.

A.B., Amherst, '60; M.D., Harv., '63; A.M. (hon.), Amherst, '66, Bowd., '69; M.D., Bowdoin, '63; LLD., Amherst, '90, Bowdoin, '94.—Assoc. Ed. *Am. Jour. Sci. and Arts*, physiol. and econom. botany.

*Botany (2d course). Lects. ii, lab. iii, 31.
 Struct. and Devel. of Phanerogams. Exper. Vegetable Physiology. Systematic Botany (Phanerogams and Pteridophytes). Economic and Medical Botany (research).

W. G. FARLOW, Prof. of Cryptogamic Botany.

A.B., Harv., '66, A.M., '69, and M.D., '70.

With Asst. Prof. Thaxter:

*Cryptogamic Botany. Lab. iii, 15, F.-My.
 Research in struct. and devel. cryptogams.

ROLAND THAXTER, Asst. Prof. of Cryptogamic Botany.

A.B., Harv., '82; Ph.D., same, '88.—Mycology, morphological and systematic, econom. mycol.

[See above.]

E. L. MARK, Hersey Prof. of Anat.

A.B., Mich., '71; Ph.D., Leipzig, '76; Instr. Math., Mich., '71-2; Instr. Zool., Harv., '77-83; Asst. Prof., '83-6.—Ed. Contrib. from Zool. Lab. Mus. Comp. Zool. at Harvard Col. since '83, Anat. and histol. of Coccidae and Phylloxera, Maturation, fecundation and cleavage in Limax, Simple eyes in Arthrop., Lepidosteus, Turbellaria.

*Microscop. Anat. (With W. McM. Woodworth). Lects. and lab., iii, 16, O.-Ja.

*Embryol. Vertebr. Lects. and lab., iii, 15, F.-My.
 Anatomy and Devel. of Animals (research).

G. H. PARKER, Instr. in Zoölogy.

S.B., Harv., '87; Asst., same, '86-8; Instr. Zool., '88-91; Ph.D., '91; Biologist Mass. State Bd. of Health, '89-90.—Compound eyes in Anthroponids, animals of drinking water.

Harvard — *Continued.*

Comp. Anat. Vertebr. Lects. and lab., iii, 31.
 *Nervous System and its Terminal Organs. iii, 16, O.-Ja.

C. B. DAVENPORT, Instr. in Zoölogy.

S.B., Brooklyn Polytech. and Col. Inst., '86; A.B., Harv., '89; Ph.D., same, '92.—Non-sex. reprod., esp. in Bryozoa, Urenatella.

*Experimental Morphol. ii, 31.

D. D. SLADE, Lect. on Comp. Osteol.

A.B., Harv., '44; M.D., same, '48.
 Comp. Osteol. (research).

JOHNS HOPKINS.

40 Graduate Students, 1894-5.

Marine Lab. in Zool. is open part of the year. Students have access to Capt. J. D. Smith's private herbar. of 78,000 sheets, esp. flora U. S. and Am. tropics; also to the Schimper Coll. Europ. phanerogams and Fitzgerald Coll. mosses. Journal club meets weekly. Adam T. Bruce Feb. in Zool.

W. K. BROOKS, Prof of Zool. and Dir. Chesapeake Zool. Lab.

A.B., Williams, '70; Ph.D., Harvard, '75; LL.D., Williams, '93.—Ed. Studies from Biolog. Lab.

Princ. of Zool. iii, 12, Ja.-Ap.
 Adv. lectures in Zool. by instructors and fellows. i, 12, Ja.-Ap.

Marine Zool. v, 12, Ap.-Jul.
 Zool. Seminary. i, 20, O.-Ap.
 Readings in Zool. i, 30.

W. H. HOWELL, Prof. of Physiology.

A.B., Johns Hopkins, '81; Fellow, '82-4; Ph.D., '84; Lect. and Prof. Physiol. and Histol., Mich., '89-'92; M.D., Mich., '90; Assoc. Prof. Physiol., Harv., '92-3.

Animal Physiol. Lects. iv, lab. v-xii, 30.

Physiol. Seminary. i, 30.

Physiol. Journal Club. i, 30.

Adv. Lab. work in Physiol.

LELAND STANFORD, JR.

12 Graduate Students, 1894-5.

Hopkins Lab. of Nat. Hist., located at Pacific Grove, on the Bay of Monterey, is a branch of the bid. work.

OLIVER P. JENKINS, Prof. of Physiol. and Histol.

A.B., Moore's Hill Col., '69, and A.M., '72; M.S., Indiana, '86, and Ph.D., '89; Prof. of Natural Science, Moore's Hill, '76-'82; Prof. Biology, De Pauw, '86-'91.

*Special courses in Physiol. (adv., with Mr. Greene). ii-v, 32.

Adv. Physiol. and Histol. Research.

*Journal Club. i, 32.

Sem. in Physiol. and Histol. (with Mr. Greene and Mr. Heath.) ii, 32.

J. H. COMSTOCK, Prof. of Entomology.

B.S., Cornell, '74; Instr. in Entomology, '73-7; Asst. Prof., '77-'82; U.S. Entomologist, at Washington, '79-'81; Prof. of Entomology and Gen. Invert. Zoölogy, Cornell, since 1882.

*Morphology and Classification of Coccidae. iii, Ja.-Mar.

CHARLES H. GILBERT, Prof. of Zoöl.

B.S., Butler, '79; M.S., Indiana, '82, and Ph.D., '83; Asst. in Nat. Sci. and Mod. Lang., Indiana, '80-4; Prof. of Nat. Hist., Cincinnati, '84-8; Prof. of Zoölogy, Indiana, '88-'91; Asst. to U.S. Fish Commission, '80-'91.

Adv. Research.

*Adv. Ichthyology. iii, 32.

DOUGLAS H. CAMPBELL, Prof. of Bot.

Ph.M., Michigan, '82, and Ph.D., '86; Prof. of Botany, Indiana, '88-'91.

Adv. work in Gen. Botany.

WILLIAM R. DUDLEY, Prof. of Botany.

B.S., Cornell, '74, and M.S., '76; Instr. in Botany, Cornell, '72-6, Asst. Prof., '76-'92.

Adv. work in biol. of Spermaphytes and Fungi. v, 32.

VERNON L. KELLOGG, Assoc. Prof. of Entomology.

B.S., Kansas, '80, and M.S., '92; Asst. Prof. Entomology, Kansas, '90-3; Assoc. Prof. '93-4.

*[Econ. Entomology. iii, 14.]
Adv. Lab. Work. ii-v, 32.

GEORGE C. PRICE, Asst. Prof. of Zoöl.

*Adv. Embryology. ii, 32.

CHARLES W. GREENE, Instr. in Physiol.
A.B., L.S.J.U., '92.

*Blood and Circulation (adv.). iii, 14.

HAROLD HEATH, Instr. in Histol.

A.B., Ohio Wesleyan, '93; Asst. in Biology, same, '93-3; Prof. of Nat. Sci., Univ. of the Pacific, '93-4.

*Special Courses in Histol. (adv.). ii-v, 32.

MICHIGAN.

to Graduate Students, 1894-5.

VOLNEY M. SPALDING, Prof. of Bot.

A.B., Michigan, '73; Ph.D., Leipzig, '94.—Intro. to study of botany, traumatic curvature of roots.

*Morphol. and Class. of Fungi. iii-v, 17, O.-F.

*Morphol. and Class. of Phanerogams. iii-v, 17, F.-Jun.

Original work in Morphology and Classification.

F. C. NEWCOMBE, Asst. Prof. of Bot.

B.S., Michigan, '90; Instr. in Botany, same, '90-2; Ph.D., Leipzig, '94.—Spore dissemination in *Equisetum*, Effect of mechanical resistance, plant tissues, etc.

*Cell Morphol. and Physiol. iii-v, 17, O.-F.

*Vegetable Physiol. iii-v, 17, F.-Jun.
Original work in Physiology.

L. N. JOHNSON, Instr. in Botany.

A.B., Wesleyan, '84; A.M., Harvard, '92.—Notes on some species of *Microsterias*, new and rare Desmids of U. S.

*Cryptogamic Botany — fresh water and marine Algae. iii-v, 17, O.-F.
Fungi, incl. methods of culture. iii-v, 17, F.-Jun.

JACOB E. REIGHARD, Prof. of Animal Morphology.

Ph.B., Mich., '82; Instr. in Zoöl., same, '86-7; Act. Asst. Prof. Zoöl., '87-8; Asst. Prof., '89.

*Comp. Embryology and Anatomy of Vertebrates. v, 34, O.-Jun.

Current lit. of Animal Morphology. i, 34, O.-Jun.

Original work in Animal Morphology. 34, O.-Jun.

DEAN C. WORCESTER, Asst. Prof. of Animal Morphol. and Curator of the Museum.

A.B., Mich., '87; Asst. in Botany, '87-'90.—Birds and Mammals of Phillipine Islands.

*Evolution of species and their geographical distribution. iii, 34, O.-Jun.

Study of Special Groups.

FRANK R. LILLIE, Instr. in Invert. Zoöl.

A.B., Toronto, '91; Reader in Embryology, Chicago, '93-4, and Ph.D., '94.—Contrib. to *Journal of Morphology*.

*Invert. Morphology. iii, 34, O.-Jun.

*Field Club Work. iii, 34, O.-Jun.

W. H. LEWIS, Asst. in Vert. Morphol.

B.S., Mich., '94.

Mammalian Anatomy. v, 34, O.-Jun.

W. P. LOMBARD, Prof. of Physiol. and Histology.

A.B., Harv., '78; M.D., same, '81; Asst. in Physiol., Col. Phys. and Surg., N.Y., '88-9; Asst. Prof. Physiol., Clark, '89-'92.—Arts. on voluntary muscular contractions in *Journal of Physiol.*, etc.

Michigan — Continued.

- *Physiology. v, 34, O.-Jun.
- *Physiology. Lab., i, 17, O.-F., or F.-Jun.
- *Physiological Exper. i, 17.
- Physiological Research. 34, O.-Jun.

F. G. NOVY [see 19].

- Lab. work in Bacteriology. x, 12, O.-D., Ja.-Ap., or Ap.-Jun.

G. CARL HUBER, Asst. Prof. of Histol.

M.D., Mich., '87; Asst. Demonstrator Anat., '87-9.—Lab. guide for work in Histol.

- *Vertebrate Histol. v, 34, O.-Jun.
- *Methods of Vert. Histol. ii, 17, F.-Jun.
- Micros. Anat. of Brain and special sense organs of Vertebrates (esp. man). v, 17, F.-Jun.

MINNESOTA.

Animal Biology, 6; Botany, 11;—Graduate Students, 1894-5.

HENRY F. NACHTRIEB, Prof. of Animal Biology.

B.S., Univ. of Minn., '82; Fel. Biology and Asst. Biol. Lab., Johns Hopkins, '82-4; State Zoölogist of Geol. and Nat. Hist. Survey.—Reports on Zoölogical survey of Minn.

Research in Vert. and Invert. Embryol. and Morphol. 36.
Individual lab. work directed. 36.

CONWAY MACMILLAN, Prof. of Bot.

A.B., Univ. of Neb., '85; Asst. Geologist, U. of Neb., '85-6; A.M., '86; Instr. in Botany, Univ. of Minn., '87; Asst. Prof. of Botany, '90; State Botanist Geol. and Nat. Hist. Survey.—The Metaspermæ of the Minnesota Valley, other reports and articles, Ed. *Quarterly Bulletin*.

Comp. Gametophytic Anatomy and Embryology. iv, 12, S.-N.
Comp. Sporophytic Anatomy and Embryology. iv, 24, N.-Jun.
Phytodynamics and Oecology. iv, 12, S.-N.

Phytocytology, structural and dynamic. iv, 24, N.-Jun.

Experimental Embryology. Organogeny. 36.
Research in selected lines. 36.

NEW YORK.**CHAS. L. BRISTOL, Prof. of Biology.**

M.S., N.Y.U., '86; Fel. Clark, '92-3; Senior Fel., Chicago, '93-5.

Invert. Morphology. ii, 30.

PENNSYLVANIA.**24 Graduate Students, 1894-5.**

Heyden and Leidy Libs. of Geol., Palaeontol. Zool. and Bot.

WILLIAM P. WILSON, Prof. of Botany.

Asst. in Botany, Harv., '74-8; B.S., Lawrence S.S., '78; Sc.D., Tübingen, '80.

Plant Anat. vi, 15, F.-My.
[Plant Physiol. vi, 15, F.-My.]

—, Prof. of Comp. Embryol.

Comp. Histol. xii, 15, O.-F.
Comp. Embryol. xii, 15, F.-My.

HORACE JAYNE, Prof. of Biol., and Dir. Wistar Inst. of Anatomy and Biol.

A.B., Univ. of Pa., '79; M.D., same, '82; Asst. Instr. in Biol., '83; Prof. Vert. Morphol., '84; Dean of College, '89-94; Ph.D., Franklin and Marshall, '93.—Monstrosities in N.A. Cleoptera, Revision of N. A. Dermeotidae.

Osteol. of Mammalia. iv, 30.

JOHN M. McFARLANE, Prof. of Gen. Biol.

B.S., Edinburgh, '79; Instr. in Botany, '79; Prof. Botany, Royal Dick Col., '81; Univ. Asst. Lect. (Edin.), and Curator Herbarium, Royal Botanic Garden, '83; Asst. Prof., Edinburgh, '89.—Minute structure of plant hybrids, etc.

Comp. Morphol. of leading nat. orders of plants. xii, 30.

PRINCETON.

4 Graduate Students, 1894-5.

¹ Fellowship of \$400 and 1 giving free use of table
at U. S. F. C. station, Woods Hole.

GEORGE MACLOSKIE, Prof. of Biology.

LL.D., London; D.Sc., Queens Univ. —
Element. Botany, Investigations on Diptera.Anat. and Embryol. of Higher In-
verts. Vegetable Morphol. and His-
tol. —, —?

H. B. CORNWALL [see 19].

Physiol. Chem. —, —?

WILLIAM LIBBEY, JR. [see 21].

The Microscope and Microscopic
Technology. Histology. Deep
Sea Soundings and Dredgings.
—, —?

W. B. SCOTT [see 21].

Vert. and Invert. Palaeontol. Adv.
Embryol. —, —?W. M. RANKIN, Instr. in Biol. and
Curator Zoöl. Mus.

Ph.D., Munich.

Anat. and Embryol. Mollusca. —,
—?

C. F. W. MCCLURE, Instr. in Biol.

Comp. Anat. of Verts. El. of Em-
bryology. —, —?

RADCLIFFE.

5 Graduate Students, 1894-5.

GEORGE L. GOODALE.

*Botany (2nd course, with Mr. Jones).
ii, and lab. iii, 31.

Economic Botany (adv.). —, —?

H. M. RICHARDS.

*Cryptogamic Botany. iii, lab. vi, 31.

E. L. MARK.

*Microscop. Anat. iii, and lab., 16,
O.-Ja.*Embryol. of Vertebrates. iii, and lab., 15,
F.-My.
Research (adv.).

G. H. PARKER.

*Comp. Anat. Vertebrates. iii, and lab., 31.
*Nervous System and its Terminal
Organs. iii, 16, O.-Ja.

C. B. DAVENPORT.

*Experimental Morphology (lects.,
lab. and a thesis). ii, 31.

VANDERBILT.

¹ Graduate Student, 1894-5.JAMES M. SAFFORD, Prof. of Nat. Hist.
and Geol.M.D., Ph.D., Yale, '44; State Geologist of
Tenn. — Reports on Geol. of Tenn.

*Adv. Palaeontology. iii, 32.

PAUL M. JONES, Instr. in Nat. Hist.
and Geol.

B.S., Vanderbilt, '89; M.S., '91; Sc.D., '92.

*Vertebrate Anat. ii, and lab., 16.

*Vert. Entomol. ii, and lab., 16.

*Invert. Morphol. ii, and lab., 32.

*Animal Histol. and Physiol. ii, and
lab., 32.

*Vegetable Morphol. ii, and lab., 32.

WESTERN RESERVE.

² Graduate Students, 1894-5.

F. H. HERRICK, Prof. of Biology.

Ph.D., Johns Hopkins, '88; Instr. in Biology,
Adelbert, '88-'91. — Crustacea.*Animal Morphology. i, and lab. iv,
S.-Ja.Animal Structure and Development.
v, S.-Ja.*Vert. Embryology, or Vegetable Mor-
phology. v, F.-Jun.

*Mammalian Anatomy. v, S.-Ja.

*Animal Physiology. v, F.-Jun.

Animal Physiology and Histology.
iii, F.-Jun.

WISCONSIN.

1 Graduate Student, 1894-5.

EDWARD A. BIRGE, Prof. of Zoölogy.

A.B., Williams, '73; Instr. in Nat. Hist., Wisconsin, '76-9; Ph.D., Harvard, '78.—Disease germs, bacteria, etc.

*Adv. Invert. Zoöl. (with Dr. Marshall). S.-Jun.

CHARLES R. BARNES, Prof. of Botany.

A.B., Hanover, '77; Prof. Bot. and Geol., Purdue, '80-5; Ph.D.—Botanical studies, mosses.

*Vegetable Organogeny and Embryol. v, 38.

*Vegetable Physiology. v, 38.

*Bryology. v, 38.

HARRY L. RUSSELL, Asst. Prof. of Bacteriology.

A.B., Wisconsin, '88; Fel. in Biol., same, '88-'90; Ph.D., Johns Hopkins, '92; Fel. in Biol., Chicago, '92-3.

*Adv. Bacteriology. v, 19.

WILLIAM S. MILLER, Instr. in Vertebrate Anat.

*Adv. Histology. S.-Jun.

WILLIAM S. MARSHALL, Instr. in Biol.

A.B., Swarthmore, '88; Ph.D., Leipzig, '92.

*Invert. Embryology. v, 19, F.-Jun.

YALE.

10 Graduate Students, 1894-5.

D. C. EATON, Prof. of Botany.

A.B., Yale, '57, and A.M., '64.—Ferns and mosses.

Systematic Bot. (Phænogams). —, —?

*Bryology. ii, 32.

W. A. SETCHELL, Asst. Prof. of Biol.

A.B., Yale, '87; A.M., Harv., '88, and Ph.D., '90.—Struct. and devel. Tnomyeia, Life Hist. Saccorhiza.

Microscopic Anat. of Phænogamous Plants. iii, 1st hf. yr

Element. Vegetable Physiology. iii, 2d hf. yr.

Morphology and Devel. of Cryptogamous Plants. iii, 32.

Mycology and Phycolgy. iii, 32.

A. E. VERRILL, Prof. of Zoölogy.

S.B., Harv., '62; A.M., same, '67.—Anatomy, taxonomy, and distrib. animals, esp. Am. invert.

Zoölogy (lab., recit., and lects.). 4 mornings weekly.

S. I. SMITH, Prof. of Comp. Anat.

Ph.B., Yale, '67; A.M., same, '87.—Anatomy, taxonomy, and distrib. of crustacea.

*El. Anat. and Histol. Lab. iv, 12, O.-D.

*Comp. Anat. and Gen. Biol. Lab. vi, 20, Ja.-Jun.

Comp. Anat. and Gen. Biol. (adv.). Lab. open 5 days per wk.

R. H. CHITTENDEN, Prof. of Physiol. Chem.

Ph.B., Yale, '75; Ph.D., same, '80; Instr. Phys. Chem., same, '76-'82.—Ed. Studies fr. Lab. Physiol. Chem., Yale, '84-9; Assoc. ed. *Jour. of Physiol.*, origin, action, and composition of var. chem. subs. in animal body, esp. action of digestive juices.

Physiol. Chem. and Physiology. Research.

*Physiology. i, 32.

*Physiol. Chem. iv, 20, Ja.-Jun.

C. E. BEECHER, Asst. Prof. of Palæontology.

B.S., Mich., '78; Ph.D., Yale, '89.—Brachipoda, sponges, corals, crustacea.

Invertebrate Palæontology. Daily.

J. W. SEAVER, Assoc. Dir. of Gym.

A.B., Yale, '80; M.D., same, '85.—Physical culture.

*Physiology. Hygiene. i, 32.

W. S. ANDERSON, Assoc. Dir. of Gym.

M.D., West. Res., '83.—Several books on physical training.

*Theory of Gymnastics. History, Means, Pedagogy. i, 32.

21. GEOLOGY AND GEOGRAPHY.

[Including Palaeontology (in part), Lithology, and Mineralogy. See also 19 and 20.]

BRYN MAWR.

Dept. opened 1895-6.

FLORENCE BASCOM, Reader in Geology (elect).

B.Sc., Mich., '84, and A.M., '87; Ph.D., Johns Hopkins, '93; Instr. in Geol., Ohio State Univ., '93-5.

One grad. course, open to grad. students in Chemistry. i, 30, with lab. and field work.

*One post-major course. ii, 30.

[No more definite announcements can be made.]

CALIFORNIA.

12 Graduate Students, 1894-5.

Remarkable opportunities offered for actual work in the field. 1 fol. in Mineralogy, \$500.

JOSEPH LECONTE, Prof. of Geol. and Natural Hist.

A.M., Georgia; M.D., New York; B.S., Harvard; LL.D., Georgia.

Lects. on Mountain Structure, Organic Evolution in Geol., Quaternary Geol., the Glacial Epoch in Cal. ii, 32.

ANDREW C. LAWSON, Assoc. Prof. of Geol. and Mineral.

A.M., Toronto; Ph.D., Johns Hopkins.

Research in Inorganic Geol.

SAMUEL B. CHRISTY, Prof. of Mining and Metallurgy.

Ph.B., Univ. of Cal.

Ore Dressing. ii, 32.

Research in Ore Dressing and Metallurgy of Gold and Silver.

JOHN C. MERRIAM, Instr. in Palaeont.

Ph.D., Munich.

Research in Palaeont.

CHICAGO.

24 Graduate Students, 1894-5.

3 *fellowships.*

THOMAS C. CHAMBERLIN, Head Prof. of Geology.

A.B., Beloit, '66, and A.M., '69; Ph.D., Michigan and Wisconsin, '83; Pres., Wisconsin, '87-'92; LL.D., Michigan, Beloit and Columbian, '87.

*Principles and Methods of Geology. v-x, 18, O.-F.

*Seminar in Glacial Geology. v-x, 6, F.-Mar.

*Geologic Life Devel. v, 12, Ap.-Jun.

*Special Geology (with Prof. Salisbury). v-x, 48.

*Local Field Geology (with Prof. Salisbury). v-x, 48.

Professional Geology. ix, 12, Jul.-S. Independent Field Work. ix, 12, Jul.-S.

General Geological Seminar. i, 36, O.-Jun.

ROLLIN D. SALISBURY, Prof. of Geographic Geology.

Ph.B., Beloit, '81, and A.M., '84; Prof. Geology, same, '84-'91; Prof. Gen. and Geographic Geol., Wisconsin, '91-2.

*Geographic Geology. v-x, 12, O.-D.; also Jul.-Au.

*Lab. Work in Geographic Geology. v, 6, N.-D.

*Structural Geology and Continental Evolution. v-x, 12, Ja.-Mar.

*General Geology. v-x, 12, Ja.-Mar. Dynamic Geography (adv.). v-x, 6 to 12, Ja.-Mar.

*Field Class in Geology. ix, 4, Au.-S.

JOSEPH P. IDDINGS, Prof. of Petrology.

Ph.B., Sheffield Scientific School, '77; Ass't. Geologist, U. S. Geog. Survey, '80-8; Geologist, '88-'92.

Chicago—Continued.

- *Geometrical and Physical Crystalllog. v, 18, O.-F.
- *Descriptive Mineralogy. v, 12, F.—My.
- *Petrology. v, 12, Ap.—Jun.
- *Petrography (adv.). v-x, 36, O.—Jun. Petrology (adv.). v, 6 to 12, Ap.—Jun.
- Field Petrology. v-x, 12 to 24, O.—D.; Ap.—Jun.
- RICHARD A. F. PENROSE, JR., Prof. of Economic Geology.
A.B., Harv., '84, and Ph.D., '86; U. S. Geol. Survey, '84-6; Geol. Survey, Texas, '88-9; Geol. Survey, Arkansas, '89-'92.
- *Economic Geology. v, 12, Ja.—Mar.
- *Chemistry of Ore Deposits. v, 12, Ja.—Mar.

- WILLIAM H. HOLMES, Prof. of Archaeologic and Graphic Geology.
Geologist, U. S. Geol. Survey, '80-9; Archaeologist, U. S. Bureau Ethnology, '80-'93; Director Field Columbian Museum, '94.
- *Archaeologic Geology. i, 12, Ap.—Jun.
- *Graphic Geology. i, 12, Ap.—Jun.

- CHARLES R. VANHISE, Non-Res. Prof. of Pre-Cambrian Geology.
B. Met. E., Wisconsin, '79, and S.M., '82; Ph.D., same, '92; Prof. Geology, same, '88.
- *Pre-Cambrian Geology. v, 6, Ja.—Mar.
- *Lab. course on Pre-Cambrian Rocks. v, 6, Ja.—Mar.

- OLIVER C. FARRINGTON, Instr. in Determinative Mineralogy.
- *Determinative Mineralogy. Lab., x—xv, 6, My.—Jun.

- , Instr. in Paleontologic Geology.
- *Intro. to Paleontologic Geology. v, 12, O.—D. Paleozoic Life, Ja.—Mar. Mesozoic Life, Ap.—Jun.
- *Special Paleontologic Geology. v-x, 36, O.—Jun.

COLUMBIA.

- JAMES F. KEMP, Prof. of Geology.
Instr. and Assoc. Prof. Geol. and Mineral. Cornell, '86-'91; Adj. Prof. Geol., Columbia, '91-2.—*Ed. Sch. of Mines Quart.*
- *Economic Geology. iii, 30.
Petrography. Lects. ii, lab. iv, 30.

- GILBERT VAN INGEN, Curator of Geological Collections.
Invertebrate Palaeontology. Lects. ii, lab. iv, 30.

- CHARLES A. HOLICK, Tutor in Geol. Palaeobotany. Lects. or confs., i, lab. or reading, iv, 60.

- ALFRED J. MOSES, Adj. Prof. of Mineralogy.
Descript. and Determinative Mineralogy (with Dr. Luquer). Lects. ii, lab. iv, 30 (2d term of 1st yr., and 1st term of 2d yr.).
Minerals of Building Stones (with Dr. Luquer). Lects. ii, lab. ii, 30.
Mathematical Crystallography. —?
Systematic Mineralogy (with Dr. Luquer). xx, 60.

- LEA MC. LUQUER, Tutor in Mineralogy.

- Optical Mineralogy. —, —?

CORNELL.

6 Graduate Students, 1894-5.

Museum of Geol., Palaeon., and Mineral. comprises Jewett Coll. N. Y. State fossils. Newcomb Coll. of recent shells. Silliman Coll. of Minerals, study collections of minerals and petrographical specimens. 1 fel. \$500 and 1 grad. schol. \$300 assigned to Departs. of Geol. and Botany.

RALPH S. TARR, Asst. Prof. of Dynamic Geol. and Physical Geog.

B.S., Harv., '91; Asst. in Geol., same, '90-1; Asst. Geol., Texas Geol. Sur., '89-'90, and U. S. Geol. Sur., '87-9, '91-2.—Economic Geology of U. S., papers on Physical Geog. and Stratig. Geol.

- *Physical Geog. (lects.). ii, 32.
- *Phys. Geog. Lab. and field, i, 32.
- *Sem. in Geol. ii, 32.
- *Geol. Invest. in lab. and field. i, 32.
- *Geology. Lects. and lab., iii, 11, Ja.-Mar.
- *Economic Geol. (lects.). iii, 9, Ap.-Jun.
- *Gen. Geol., esp. Dynamic (lects.). ii, 32.
- *Glacial Geol. Lects. and excursions, iii, 12, O.-D.

GILBERT D. HARRIS, Asst. Prof. of Palaeont.

Ph.B., Cornell, '86; Asst. Palaeont., U. S. Geol. Sur., '88-'92; Tertiary Palaeont., Texas Geol. Sur., '92-4.—Tertiary Geol. of So. Ark., Marine Tertiary Mollusca of Texas.

- *Hist. Palaeontology (lects.). ii, 12, O.-D.
- *Conchology (el.). Lects. and lab., iii, 20, Ja.-Jun.
- Research in Tertiary Invert. Palaeont. Lab., 32.

ADAM C. GILL, Asst. Prof. of Mineral. and Petrog.

A.B., Amherst, '84; Ph.D., Munich, '03; Prof. of Math., Park Col., '84-6.—Beiträge zur Kenntniss des Quarzes, petrog. in Mex., Cal., etc., economic geol. in Tenn., Ga., Ala.

- *Mineralogy. iii, 12, O.-D.
- *Mineralogy. Lects. and lab., iii, 23, O.-Mar.
- *Petrography. Lects. and lab., iii, 23, O.-Mar.
- *Lithology (lects.). ii, 9, Ap.-Jun.
- *Physical Crystallog. Lects. and lab., iii, 12, O.-D., or 9, Ap.-Jun. Mineral. and Petrog. Research, 32.

HARVARD.

ii Graduate Students, 1894-5.

[Courses marked R are open to Radcliffe Graduate Students.]

Geological conference meets weekly. Advanced geological work, with original investigation, is conducted by all instructors throughout the year.

J. D. WHITNEY, Sturgis-Hooper Prof. of Geology.

A.B., Yale, '39; LL.D., same, '70.

- *Economical Geol. ii-iii, 16, O.-Ja.
- *[Mineral Veins and Metalliferous Deposits. ii-iii, 15, F.-Jun.]
- [Geographical methods and results. i, 31.]

N. S. SHALER, Prof. of Geology.

S.B., Harv., '62; Sc.D., same, '75.—Ed. The U. S. of Am. Geol., of Ky., numerous scientific papers.

Geol. (research).

With Dr. R. T. Jackson:

- *Gen. Palaeontology. ii-iii, 31.
- *Histor. Geol. Lab. and field, i, 31.
- Palaeontology (research).

W. M. DAVIS, Prof. of Phys. Geog.

S.B., Harv., '69; M.E., same, '71; Asst., Argentine Nat. Obs., Cordova, '70-3.—Triassic formation of Conn., glacial geol., physical geography, esp. nat. hist. of rivers, meteorology.

R) Physical Geog. (3d course). ii, 31.

R) Meteorology (2d course). ii, 31.

- *[Physical Geography of the United States. iii, 31, F.-My.]
- *Physical Geography of Europe. iii, 31, F.-My.

J. E. WOLFF, Prof. of Petrography and Mineralogy.

A.B., Harv., '79; Ph.D., same, '89.

R)* Petrography (with C. L. Whittle). Lects. ii, lab., 31.

Petrograph. (research).

[Geol. and Mineral. of Building Stones. Lects. iii, lab., 16, O.-Ja.]

J. B. WOODWORTH, Asst. in Geology.

S.B., Harv., '94.

*Gen. Critical Geol. ii-iii, 31.

*Glacial Geol. i-ii, 31.

H. L. SMYTH, Asst. Prof. of Mining Geology.

A.B., Harv., '83; C.E., same, '85; Topographer, U. S. Geol. Survey.—Several articles on the Geology of the Lake Superior regions.

*Mining Geology. iii, D.-Ap.

*Geological Surveying. iii, D.-Ap.

*Pre-Cambrian Geology of North America. iii, F.-Jun.

Harvard—Continued.**R. DEC. WARD.**

A.B., Harv., '89, and A.M., '93.—Ed. *Amer. Met. Jour.*

*[Climatology. ii—iii, 16, O.—Ja.]

R. T. JACKSON.

*Invert. Palaeontology. Lects. ii, lab., 31.

JOHNS HOPKINS.

21 Graduate Students, 1894—5.

Geol. Conferences held weekly.

W. B. CLARK, Assoc. Prof. of Organ. Geol.

Ph.D., München, '87; Dir. Md. State Weather Service; Asst. U. S. Geol. Survey.—Stratigraphical geol. and paleontol., esp. eocene of U. S., mesozoic echinoderms of U. S., cretac. and tertiary geol. of N. J. and Md., phys. features of Md.

Palaeontology. —, —?

Hist. Geology. —, —?

Lab. work in Organic Geol.

Lectures on Gen. Geol. —, —?

LELAND STANFORD, JR.

5 Graduate Students, 1894—5.

JOHN C. BRANNER, Prof. of Geology.

B.S., Cornell, '82; Ph.D., Indiana, '85; Asst. Geologist, Imp. Geol. Sur., Brazil, '75—8; Special Agent of the U. S. Dept. of Agr. for investigating Cotton and Insects affecting it in Brazil, '82—3; Topographical Geol. of Geol. Sur. of Penn., Anthracite District, '83—85; Prof. of Geology, Indiana, '85—91; State Geologist of Arkansas, '87—92.—Various publications.

*Econ. Geol. ii, 18.

*Topog. Geol. ii—v, 32.

Special Adv. Investigations.

JAMES P. SMITH, Assoc. Prof. of Mineral. and Palaeont.

A.M., Vanderbilt, '86; Ph.D., Göttingen, '92; Asst. Geol. and Chemist, Arkansas Geol. Sur., '87—90.

*Adv. Mineral. and Petrography. v, 32.

*Palaeont. ii—v, 32.

L. R. LENOX [see 19].

*Assaying. ii, 18.

MICHIGAN.

5 Graduate Students, 1894—5.

I. C. RUSSELL, Prof. of Geology.

B.S., C.E., N. Y. U., '72, and M.S., same, '75; Asst. U. S. Transit of Venus Exp., '74—5; Asst. Prof. Geol., Columbia, '75—7; Asst. Geol. U. S. Surv., 100th Mer., '78; Asst. Geol. and Geol., U. S. Geol. Surv., '80—'92; Assoc. Ed. *Jour. of Geol.*—Plaistocene Lakes of Great Basin, Existing Glaciers U. S., Geol. of Oregon, Wash. and Alaska.

*Physical and Glacial Geol. ii, 17, O.—F.

*Paleont. Invest. ii—iii, 17, F.—Jun.

*Physical Geog. iii, 17, O.—F.

W. M. H. PETTEE, Prof. of Mineralogy, Econ. Geol., and Mining Engineering.

A.B., Harvard, '61, and A.M., '64.

Adv. work in Mineralogy. 34, O.—Jun.

MINNESOTA.

12 Graduate Students, 1894—5.

Geological Museums embrace colls. of Geol. Survey of the State and study colls. in Petrology and Palaeontology, esp. in anc. eruptives and Lower Paleozoic faunas of northeastern states.

CHRISTOPHER W. HALL, Prof. of Geology and Mineralogy, and Dean of Col. of Eng., Metallurgy and Mechanic Arts.

A.B., Middlebury, '71.—Educational and geological papers.

Economic Geol., hist. and devel. of mineral discovery in Am. —, —? Granitic rocks of Minn. —, —?

Lower Paleozoic formations of S. E. Minn. —, —?

Cambrian and Lower Silurian faunas of S. E. Minn. —, —?

Local glacial phenomena. —, —?

CHARLES P. BERKEY, Instr. in Mineralogy.

B.S., Univ. of Minn., '92, and M.S., '93.—Geological and mineralogical papers.

Microchemical methods in Mineralogy and their applica. —, —?
 Optical characters and stauromoscopic determinations. —, —?
 Mathematical Crystallography. —, —?
 Original problems.

ARTHUR H. ELFTMAN, Scholar in Geol., and Asst. in Lab.
 B.S., Univ. of Minn., '92, and M.S., '93.
 Pre-Cambrian eruptives of N. E. Minn. —, —?

NEW YORK.

JOHN J. STEVENSON, Prof. of Geology.
 Ph.D., N. Y. U., '67; Asst. Ohio Geol. Survey, '71-4; U. S. Geol. Survey, '73-4, '78-'80; Asst. 2d Geol. Surv. Penn., '75-8, '81-2; LL.D., Col. N. J., '93.—Geology, Carboniferous and Cretaceous.
 Economic Geology. iii, 33.
 General Geology. iii, 33.
 Principles of Geology. ii, 28.

PENNSYLVANIA.

22 Graduate Students, 1894-5.

AMOS P. BROWN, Prof. of Mineral. and Geol.
 B.S., Univ. of Pa., '86; E.M., same, '87; Instr. in Min. and Metallurgy, '89-'93, and Ph.D., '93.—Const. of Pyrite, Mineral. and Geol. subjects.
 Histor. Geol. and Stratigraphy. ii, 30.
 Phys. Geol. i, 15, O.-F.
 Chem. Geol. and Metamorphism. i, 15, F.-My.
 Geol. Practicum. iv, 30.
 Math. and Phys. Crystallog. i, 15, O.-F.
 Syst. Mineral. i, 30.
 Chem. and Synthet. Mineral. i, 15, F.-My.
 Mineral. Practicum. iv, 30.

EDWARD D. COPE, Prof. of Geol. and Palaeontol.

A.M., Haverford; Ph.D., Heidelberg; Prof. of Nat. Sci., Haverford, '64-7; Prof. of Geol., Univ. of Pa., '89-'93; Prof. Zool. and Comp. Anat. '93-5.—Palaeontol. of New Mex., Vert. Palaeontol., Origin of the Fittest, Prim. Factors of Organ Evolution.

Major Course. Organography, Osteol., and Odontography of Verts., with Palaeont. Time Hist. of any Organ of Vert. iv, 30.
 Minor Course. Toxon., Palaeont., and Organography of Verts. ii, 30.

PRINCETON.

2 Graduate Students, 1894-5.

WILLIAM LIBBEY, JR., Prof. of Physical Geog. and of Normal Histology, and Dir. Mus. Geol. and Archaeol.

Ph.D., Princeton, '79.—4th ed. Smithsonian meteorol. and physical tables, physical investg. of Gulf Stream.

Relat. of Physical Geog. to Hist. of Mankind. i, 16, F.-Jun.

W. B. SCOTT, Blair Prof. of Geol.

Ph.D., Heidelberg, '80.—Palaeontol. and embryol. of verts., histor. geol., theories of evolution.

Physical Geology. ii, 32.

RADCLIFFE.

[See Harvard Courses marked R.]

W. M. DAVIS.

*[Physical Geog. of U.S. iii, 15, F.-My.]
 *Physical Geog. of Europe. iii, 15, F.-My.

J. E. WOLFF.

*Petrography. ii, and lab., 31.

J. B. WOODWORTH.

*Gen. Critical Geol. ii, and lab., 31.

VANDERBILT.

4 Graduate Students, 1894-5.

JAMES M. SAFFORD [see 20].

- *Economic Geol. iii, 32.
- *Ore Deposits. iii, 32.
- *Special field work.

PAUL M. JONES [see 20].

- *Adv. Mineralogy. iii, and lab., 16.
- *Petrography. iii, and lab., 16.

WESTERN RESERVE.

H. P. CUSHING, Assoc. Prof. of Geol.

M.S., Cornell, '83; Instr. in Geology and Chemistry, W. R. U., '92-3.—Petrography.

Descriptive Mineralogy and Crystallography. v, F.-Jun.

- *Determinative Mineralogy. iii, S.-Ja.
- Petrography. —, —?
- Stratigraphical and Dynamical Geology. —, —?

WISCONSIN.

1 Graduate Student, 1894-5.

CHARLES R. VAN HISE, Prof. of Geol.

B.Met.E., Wisconsin, '79, and S.M., '82; Instr. in Metallurgy, same, '79-'83; Asst. Prof., '82-4; Prof., '84-8; Prof. Archaean and Applied Geol., '88-92; Ph.D., '92; Geologist U. S. Survey of Pre-Cambrian Rocks.—Archaean and Algonkian, N. Am. Pre-Cambrian Geol., iron-bearing districts Mich. and Wis.

- *Physical and Pre-Cambrian Geol. —, —?

JULIUS M. CLEMENTS, Asst. Prof. of Geol.

Ph.D., Leipzig, '90; Asst. U. S. Geol. Survey.

- *Palaeontology. —, —?

WILLIAM H. HOBBS, Asst. Prof. of Mineralogy and Petrology.

Ph.D., Johns Hopkins, '88; Asst. U. S. Geol. Survey. Assoc. Ed. *Amer. Nat.*, cryst. and opt. mineral., petrology, struct. geol.

*Petrology. —, —?

*Adv. Mineralogy. —, —?

YALE.

G. J. BRUSH, Prof. of Mineralogy and Dir. Sheffield Sci. School.

Ph.B., Yale, '52; A.M., same, '57; LL.D., Harv., '86.—Minerals.

Mineralogy, lab. and lect. —, —?

Lithology, microscop. petrography.

—, —?

- *El. Struct. and Dyn. Geol. iii, 32.

H. S. WILLIAMS, Prof. of Geology.

Ph.B., Yale, '68, and Ph.D., '71; Prof. Geol. and Palaeontol., Cornell; U. S. Geol. Survey.—Palaeontol., stratigraphy, gen. princip. palaeontol. and histor. geol., etc.

Hist. Geol. and Palaeontol. —, —?

*Geol. (gen. course). ii, 32.

*Geol. Hist. of Organisms. iii, 32.

W. H. BREWER, Prof. of Agr.

Ph.B., Yale, '52; Ph.D., Washington and Jeff., '80; Prof. Nat. Sci. in Wash. Col.—Agricult. topics, esp. breeding, botany, geol. California, sanitation, gen. biol.

- *Phys. Geog. ii, 32.

S. L. PENFIELD, Prof. of Mineralogy.

Ph.B., Yale, '77.

Mineralogy and Crystallog. —, —?

L. V. PIRSSON, Asst. Prof. of Inorg. Geol.

Ph.B., Yale, '82.

Mineralogy and Crystallog. —, —?

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